Oregon State University
College of Forestry

Name: _____

Major: _____

Advisor Name: _____

Advisor Office: _____

Advising Appointment Time: _____

Table of Contents

College of Forestry

Welcome to the College of Forestry at Oregon State University!

I am thrilled that you have found your way to our College. This is the place to be for those who love forests and our natural environment, and who want to learn more about management and conservation of these critical resources.

Our faculty, staff, and students have a longstanding record of serving the region, working internationally, and bringing science-based solutions into our communities and workplaces. The career opportunities that await you build on the courses you will take, the experiences you have access to, and the jobs you do through summer and part-time work; and with all of this, employers love our students and our graduates get great jobs!

- Forestry and Natural Resource Professionals are unique in their ability to plan and manage for multiple values over the long term
- Forestry and Natural Resource Scientists continue to seek answers that will help us work with natural systems
- Wood Scientists and Engineers help us produce better products and new possibilities for sustainably meeting society's needs for building materials, water, and more

Academic excellence is the hallmark of College of Forestry programs at Oregon State University. Ranked as one of the premier forestry schools in the nation, students find a variety of programs that offer broad education, rigorous depth, and professional focus.

Dedicated faculty work with students to provide advising, mentoring, research experiences, study abroad opportunities, field labs, exposure to real-world practices, and the latest scientific findings.

Active student clubs enrich student life through social interaction, links to professional organizations, and leadership opportunities.

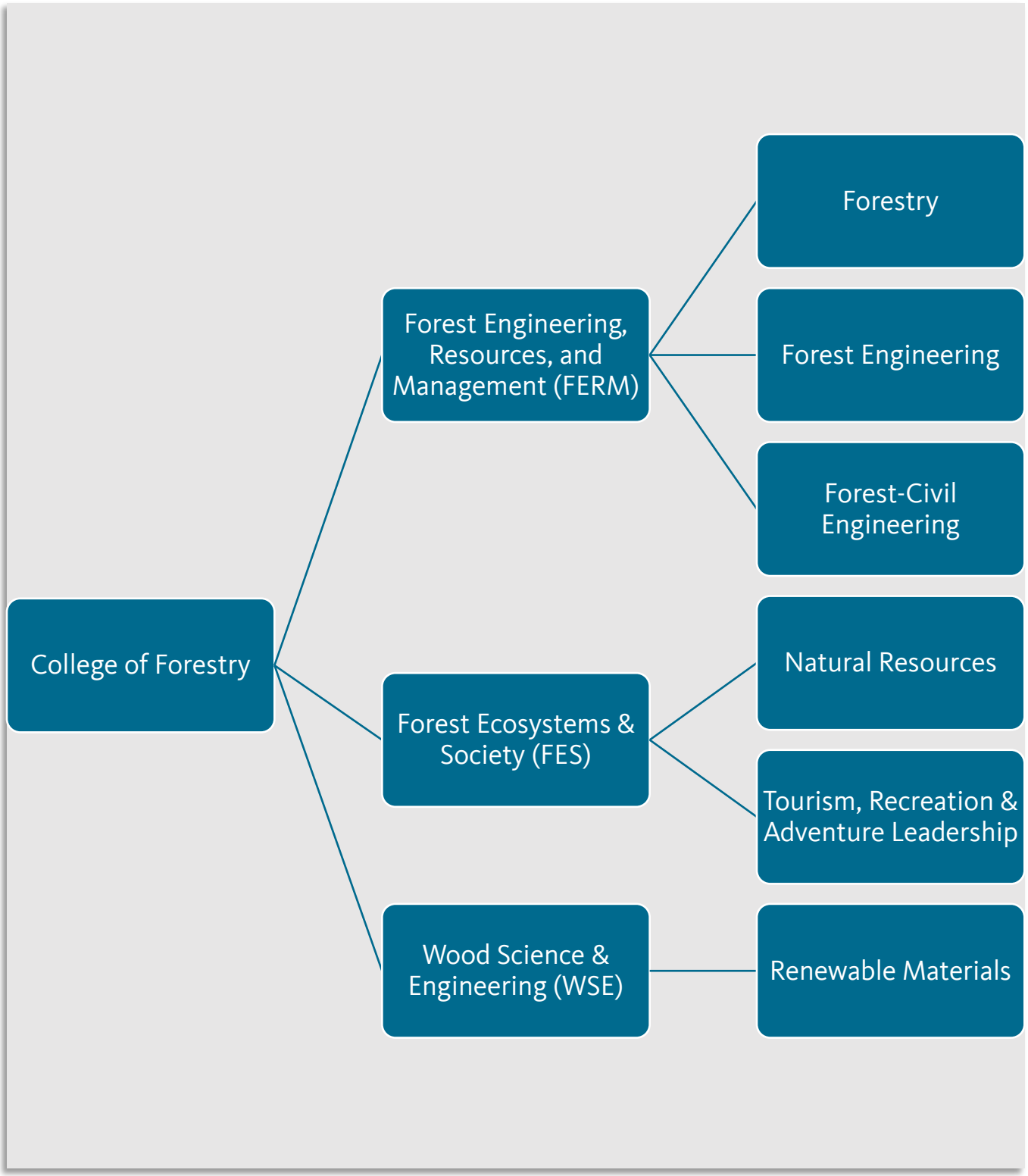
In short, this is a great place to study, and an OSU College of Forestry degree is sound preparation for the future and an ever-expanding variety of jobs and careers. We look forward to helping you flourish!

With warm regards,
Anthony S. Davis, Acting Dean

COF by the numbers

2nd	2017 worldwide ranking for OSU's College of Forestry
6	Number of undergraduate majors offered
950	Number of undergraduates enrolled in COF majors
14,000	Acres of College Forest located in Oregon
$520K	Scholarships awarded for 2019-2020

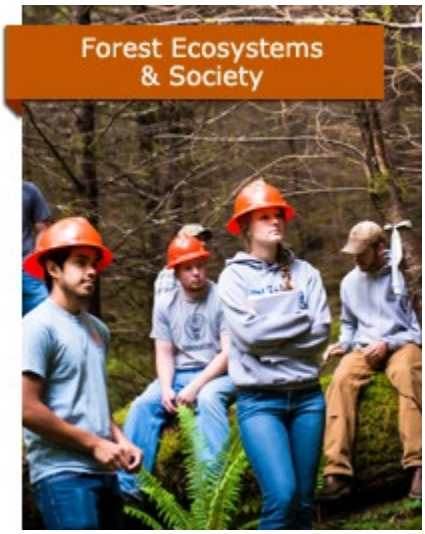
College, Departments, Majors



Departments

Forest Engineering, Resources & Management (FERM)
ferm.forestry.oregonstate.edu
Peavy 216
541-737-4952

Majors:
Forestry
Forest Engineering
Forest-Civil Engineering



Forest Ecosystems & Society (FES)
fes.forestry.oregonstate.edu
Richardson 321
541-737-2244

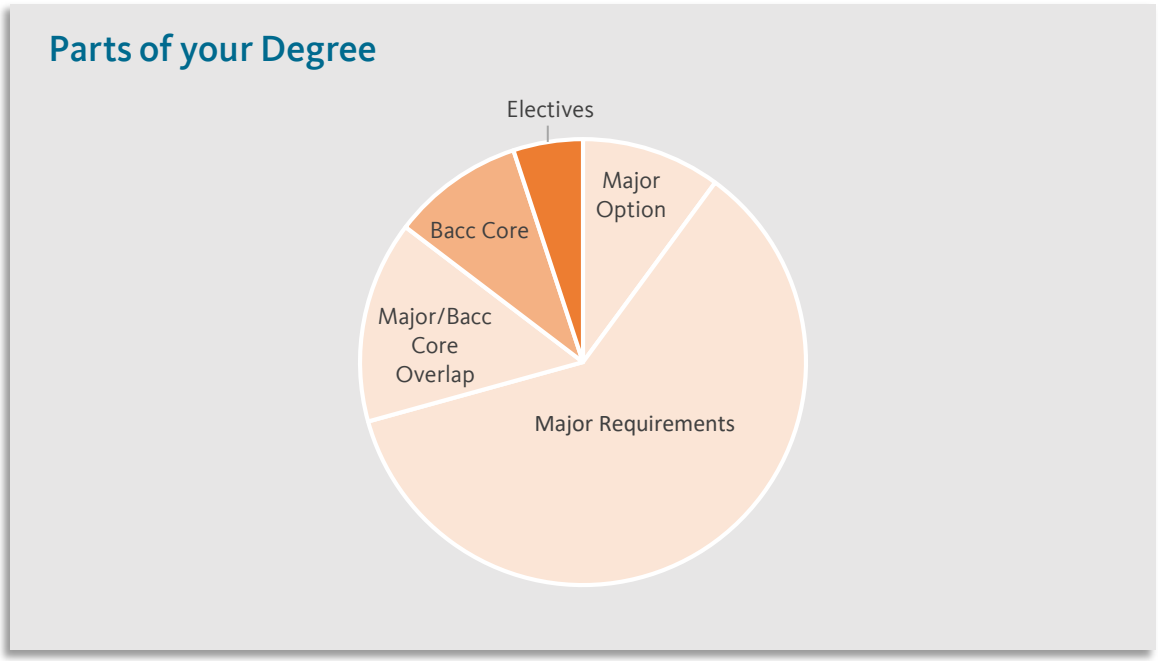
Majors:
Natural Resources
Tourism, Recreation, and Adventure Leadership

Wood Science & Engineering (WSE)
woodscience.oregonstate.edu
Richardson 119
541-737-8506

Major:
Renewable Materials

Parts of Your Degree

In general, your degree will have three parts: the Baccalaureate Core, major requirements, and electives. You will need a minimum of 180 credits to receive a degree. Students in Forest Engineering need 192, and those in Forest-Civil Engineering need 245.



Baccalaureate Core ("Bacc Core"): General education curriculum required of every OSU student.

Major: Your primary area of study. The majority of your courses will be in your major, and you will gain a depth of knowledge in this discipline.

Option: Some majors include an option. Options are specialized tracks within the major, allowing you to tailor your courses more specifically within a broad major.

Minor: A secondary area of study. Most minors require 24-36 credits of coursework, giving you a little more depth in that particular area. College of Forestry students are not required to have a minor.

Electives: These are courses that you choose. Generally, they will not fulfill a requirement for your major, Bacc Core, or minor, but still count toward your total credits for graduation. Students often earn elective credit for music or physical fitness classes that they take for fun.

Consult your Academic Advisor, your Advising Guide, the OSU Catalog, and your MyDegrees page for requirements of your specific program.

Baccalaureate Core

Baccalaureate Core (commonly referred to as "Bacc Core") is the general education curriculum at Oregon State University. In order to graduate from OSU, students must complete the Bacc Core in addition to their major requirements.

	Purpose	Category Name	Details	Credits
Skills **15 Credits from 5 Courses**	Ensure that students have basic skills in written and oral communication, mathematics, and personal wellness.	Writing I	Must be completed satisfactorily (grade of C- or better) within the first 45 credits at OSU.	3 credits
		Writing II	Must be completed satisfactorily within the first 90 credits at OSU.	3 credits
		Speech	Must be completed satisfactorily within the first 45 credits at OSU.	3 credits
		Mathematics	Must be completed satisfactorily within the first 45 credits at OSU.	3 credits
		Fitness	Two parts: HHS 231 (2 credits) and HHS 24X/PAC (1 credit)	3 credits
Perspectives **24 Credits from 7 Courses**	Perspectives courses provide students with a breadth of knowledge across disciplinary fields. *(no more than two courses from any subject)*	Biological Science & Lab		4 credits
		Physical Science & Lab		4 credits
		Additional Lab Science	Choose an additional Physical Science or Biological Science course	4 credits
		Cultural Diversity		3 credits
		Literature & the Arts		3 credits
		Social Processes & Institutions		3 credits
		Western Culture		3 credits
Difference, Power, and Discrimination 3 credits from 1 course	In DPD courses, students examine the complex structures, systems, and beliefs behind discrimination and unequal power distribution in American society.	Difference, Power, and Discrimination		3 credits

	Purpose	Category Name	Details	Credits
Synthesis **6 credits from 2 courses**	Synthesis courses use multidisciplinary approaches that foster critical thinking in a given content area. *(Courses must be from two different departments)*	Contemporary Global Issues		3 credits
		Science, Technology, and Society		3 credits
Writing Intensive Course **3 credits from 1 course**	In WIC courses, students gain knowledge of and practice with writing in their major.	Writing Intensive	Taken in the major	3 credits
Total:				51 credits

A full list of courses that fulfill Bacc Core requirements is available online: catalog.oregonstate.edu/earning-degrees/bcc/. Some Bacc Core requirements may be fulfilled by courses you take for your major. Consult with your Academic Advisor to determine which categories you need to fulfill.

What if I have an Associate's Degree?

Students transferring to OSU after earning an Associate's Degree at an Oregon Community College may have a majority of their Bacc Core waived. Official policy: admissions.oregonstate.edu/transfer-credit

Associate of Arts Oregon Transfer (AAOT)
Completion of an Associate of Arts Oregon Transfer degree (AAOT) ensures completion of all lower division Bacc Core requirements and junior standing for registration. Students with AAOTs will still need to complete the Bacc Core Synthesis and WIC requirements at OSU.

Associate of Science (AS)
The Associate of Science (AS) degree does not guarantee that students will be accepted as having completed all lower division Bacc Core requirements or junior standing for registration purposes. However, an AS from Linn-Benton Community College (awarded after March 2001) ensures completion of all lower division Baccalaureate Core requirements at OSU. Students with AS degrees will still need to complete the Bacc Core Synthesis and WIC requirements at OSU.

Associate of Science Oregon Transfer – Business (ASOT-Business)
Completion of an ASOT- Business ensures completion of all lower division Bacc Core requirements and junior standing for registration purposes. Students with ASOT - Business degrees will still need to complete the Bacc Core Synthesis and WIC requirements at OSU.

Program Overview: Forest Engineering

Forest Engineering at Oregon State has a long tradition of excellence in undergraduate education. Our programs are designed to provide a solid Engineering background as well as fundamental knowledge in Forestry principles and practices. OSU is one of only two universities in the U.S. to offer a forest engineering degree. We provide an engineering education that focuses on solving the engineering problems of Forest Resource Management. Employers in forest industries, consulting firms, and public agencies recognize the strength of OSU's programs. The quality in the Forest Engineering program is maintained by including breadth and depth in both Forestry and Engineering topics in the curriculum. The Bachelor of Science in Forest Engineering is accredited by the Society of American Foresters (SAF) and by the Engineering Accreditation Commission of ABET, Inc.

The Forest Engineering Program at Oregon State University prepares graduates to plan and implement solutions to complex forestry and natural resource problems. Early career opportunities include harvest unit design, forest road location and design, contract inspection and administration, cost analysis, and forest transportation management. Mid-career assignments may involve aspects of engineering management including planning and budgeting, supervision, wood supply procurement, harvest and road design reviews, and scheduling and controlling forest operations.

Pro-School (see p. 26):

The Forest Engineering major operates on a pre/pro model. Students spend their first two years in the Pre-Forest Engineering program (Pre-FE), and move to the professional Forest Engineering program (or "Pro-School") for their junior and senior years. Students remain in the Pre-FE program until completing the Pre-FE curriculum satisfactorily. Grades of C or better and a minimum GPA of 2.25 are required in all courses that are part of the Pre-FE curriculum. Pre-FE students will apply for admission to Pro-School to gain access to the junior/senior level courses. Application commonly takes place at the end of the sophomore year.

Field School:

Field School is an intensive two-week hands-on experience that prepares students for Pro-School. It is required of all students entering Pro-School and takes place during the two weeks prior to the start of the junior year.

Special Requirements:

- **S/U Grading**: Students majoring in Forest Engineering may not take for S/U Grading (Satisfactory/Unsatisfactory) any course listed as a requirement for the major. This includes approved substitutions. Bacc Core courses may be taken S/U unless they are also being used to fulfill a program requirement.
- **Grades of C or better must be earned** in all required College of Forestry (FE, FOR, FES, NR, TRAL, WSE) courses (or approved substitutions).
- **Approved Work Experience:** Six months of work experience related to the major is required. Additional information can be found on page 64.

Note: The following courses fulfill requirements for the major. Students must also complete OSU's Baccalaureate Core to earn a degree. Major requirements that also fulfill a Baccalaureate Core requirement are marked with an asterisk (*).

Pre-Forest Engineering Courses: First & Second Years

CCE 201	Civil Engineering II: Engineering Graphics & Design
CH 201	Chemistry for Engineering Majors
COMM 111* or COMM 114*	Public Speaking or Argument & Critical Discourse
ECON 201*	Intro to Microeconomics
ENGR 211	Statics
ENGR 212	Dynamics
ENGR 213	Strength of Materials
FE 101	Intro to Forest Engineering
FE 102	Forest Engineering Problem Solving & Technology
FE 208	Forest Surveying
FE 257	GIS & Forest Engineering Applications
FES 240*	Forest Biology
FES 241	Dendrology
FOR 111	Intro to Forestry
MTH 251*	Differential Calculus
MTH 252	Integral Calculus
MTH 254	Vector Calculus
MTH 256	Applied Differential Equations
PH 211*	General Physics I with Calculus
PH 212*	General Physics II with Calculus
SOIL 205*	Soil Science
FOR 206*	Soil Science Lab
ST 201	Principles of Statistics
WR 121*	English Composition
WR 327*	Technical Writing

Professional Program: Third & Fourth Years

FE 310	Forest Route Surveying
FE 312	Field School
FE 315	Soil Engineering
FE 316	Soil Mechanics
FE 330	Forest Engineering Fluid Mechanics & Hydraulics
FE 371	Harvesting Process Engineering
FE 415	Forest Road Engineering
FE 416	Forest Road System Management
FE 434	Forest Watershed Management
FE 440	Forest Operations Analysis
FE 444	Forestry Remote Sensing & Photogrammetry
FE 456*	International Forestry (or other Contemporary Global Issues course)
FE 457	Techniques for Forest Resource Analysis
FE 459	Forest Management Planning & Design I
FE 460* or FOR 460*	Forest Operations Regulations and Policy Issues or Forest Policy
FE 469	Forest Management Planning & Design II
FE 470	Logging Mechanics
FE 471	Harvesting Management
FE 480	Forest Engineering Practice & Professionalism
FOR 321	Forest Mensuration
FOR 329	Forest Resource Economics I
FOR 330	Forest Resource Economics II
FOR 441	Silviculture Principles
GEO 300* or FW 350*	Sustainability for the Common Good or Endangered Species, Society and Sustainability

Program Overview: Forest-Civil Engineering

Graduates from these degree programs receive a rigorous blend of engineering and forestry education that provides a foundation for amazingly diverse career options. The OSU Forest Engineering Program is the only one that is accredited in both engineering and forestry. The FE/CE double degree is unique; it is not available at any other university in North America and the Engineering Accreditation Commission of ABET, Inc. (ABET) accredits both programs.

Graduates from both degree programs are prepared to play a variety of key roles in helping meet the world's appetite for wood products from sustainable forests, while also protecting other resource values such as soils, water, wildlife habitat, and recreation opportunities. In a world of more than 7 billion people, society's wood demands are enormous and growing, even with aggressive recycling programs. Many Forest Engineering graduates help meet these demands through positions that plan, design, and implement forestry activities — applying the best engineering, science, technology and experience available to conduct safe, cost effective, and environmentally responsible forest operations.

Other Forest Engineering graduates, especially those from the FE/CE degree program, sometimes pursue careers with less forestry focus. Examples include land development, surveying engineering, transportation engineering and management, environmental consulting, and even municipal engineering. The 5-year double degree is challenging, but commonly provides the most diverse job opportunities and highest starting salaries.

Traditional forest engineering careers typically involve developing and maintaining transportation systems, and planning and designing timber harvests and other forest operations. Forest products or timberland management companies, federal or state agencies, and consulting or contracting firms are the most common entry-level employers for graduates. Some stay in field oriented positions for much of their career, but many graduates have also become successful managers and executives as they gain experience. A substantial number of graduates find opportunity and satisfaction in owning their own consulting or contracting business, especially if they have an interest in entrepreneurship.
All of these types of positions represent vibrant and timely career opportunities. Forestry continues to be a cornerstone of the economy of many communities, providing jobs and economic vitality. This is a good time to be entering this field as the baby boomer generation begins to retire. As the population of the world grows and natural resource challenges become more complex the need for well-rounded highly trained forest engineers becomes greater.

Pro-School (see p. 26):

The Forest-Civil Engineering major operates on a pre/pro model. Students spend their first two years in the pre-FE/CE program, and move to the professional FE/CE program (or "Pro-School") for their final three years. Students remain in the Pre-FE/CE program until completing the Pre-FE/CE curriculum satisfactorily. Grades of C or better and a minimum GPA of 2.25 are required in all courses that are part of the Pre-FE/CE curriculum. Pre-FE/CE students will apply for admission to Pro-School to gain access to the junior/senior level courses. Application commonly takes place at the end of the sophomore year.

FE/CE students must also meet progression standards for Civil Engineering, and are subject to different GPA requirements. Engineering Progression Model: engineering.oregonstate.edu/apply-engineering-professional-program-summer15-later

Field School:

Field School is an intensive two-week hands-on experience that prepares students for Pro-School. It is required of all students entering Pro-School and takes place during the two weeks prior to the start of the junior year.

Special Requirements:

- **S/U Grading**: Students majoring in Forest-Civil Engineering may not take for S/U Grading (Satisfactory/Unsatisfactory) any course listed as a requirement for the major. This includes approved substitutions. Baccalaureate core courses may be taken S/U unless they are also being used to fulfill a program requirement.
- **Grades of C or better must be earned** in all required College of Forestry (FE, FOR, FES, NR, TRAL, WSE) or approved substitutions.
- **Approved Work Experience:** Six months of work experience related to the major is required. Additional information can be found on page 64.

Note: The following courses fulfill requirements for the major. Students must also complete OSU's Baccalaureate Core to earn a degree. Major requirements that also fulfill a Baccalaureate Core requirement are marked with an asterisk (*).

Pre-Forest/Civil Engineering Courses: First & Second Years

CCE 101	Civil & Construction Engineering Orientation
CCE 201	Civil Engineering II: Engineering Graphics & Design
CH 201	Chemistry for Engineering Majors I
CH 202	Chemistry for Engineering Majors II
CH 205	Laboratory for CH 202
COMM 111* or COMM 114*	Public Speaking or Argument & Critical Discourse
ECON 201*	Intro to Microeconomics
ENGR 211	Statics
ENGR 212	Dynamics
ENGR 213	Strength of Materials
FE 101	Intro to Forest Engineering
FE 102	Forest Engineering Problem Solving & Technology
FE 208	Forest Surveying
FE 257	GIS & Forest Engineering Applications
FES 240*	Forest Biology
FES 241	Dendrology
MTH 251*	Differential Calculus
MTH 252	Integral Calculus
MTH 254	Vector Calculus
MTH 256	Applied Differential Equations
MTH 306	Matrix & Power Series Methods
PH 211*	General Physics I with Calculus
PH 212*	General Physics II with Calculus
PH 213*	General Physics III with Calculus
SOIL 205*	Soil Science
FOR 206*	Soil Science Lab
ST 314	Intro to Statistics for Engineers
WR 121*	English Composition

Professional Program: Third, Fourth & Fifth Years

CCE 321	Civil Engineering Materials
CE XXX	CE Design Elective (choose from a list)
CE 311	Fluid Mechanics
CE 313	Hydraulic Engineering
CE 361	Surveying Theory
CE 381	Structural Theory I
CE 382	Structural Theory II
CE 383	Design of Steel Structures
CE 392	Intro to Highway Engineering
CE 418*	Civil Engineering Professional Practice
CE 419	Civil Infrastructure Design
CE 481	Reinforced Concrete I
CE 491	Transportation Engineering
ENGR 201	Electrical Fundamentals I
ENVE 321	Environmental Engineering Fundamentals
FE 310	Forest Route Surveying
FE 312	Field School
FE 315	Soil Engineering
FE 316	Soil Mechanics
FE 371	Harvesting Process Engineering
FE 415	Forest Road Engineering
FE 416	Forest Road System Management
FE 434	Forest Watershed Management
FE 440	Forest Operations Analysis
FE 444	Forestry Remote Sensing and Photogrammetry
FE 456*	International Forestry (or other Contemporary Global Issues course)
FE 457	Techniques for Forest Resource Analysis
FE 459	Forest Management Planning & Design I
FE 460* or FOR 460*	Forest Operations Regulations and Policy Issues or Forest Policy
FE 469	Forest Management Planning & Design II
FE 470	Logging Mechanics
FE 480	Forest Engineering Practice and Professionalism
FOR 321	Forest Mensuration
FOR 329	Forest Resource Economics I
FOR 330	Forest Resource Economics II
FOR 441	Silvicultural Principles
GEO 300* or FW 350*	Sustainability for the Common Good or Endangered Species, Society and Sustainability
WR 327*	Technical Writing

Program Overview: Forestry

The B.S. in Forestry program is intended to more broadly educate and train forest land managers in the biological, physical, and socioeconomic factors that influence forest policies and management actions. Our graduates will be prepared to work for the forest industry, non-industrial landowners, federal and state agencies, non-profits and nongovernmental organizations.

The successful forester must understand the biological and physical processes of forest ecosystems, as well as the social, economic, and operational forces that influence forest policies and management actions. The forestry core curriculum includes basic courses in the biological, physical, social sciences, and six months of work experience as well as professional courses designed to prepare students to manage forest resources.

Learning outcomes for the B.S. in Forestry program:

- Demonstrate knowledge of forest ecology and silvicultural principles to understand how forests and forested watersheds respond to natural disturbances or management activities.
- Develop skills in geospatial analysis, basic surveying, mapping, and Geographic Information Systems (GIS).
- Demonstrate ability to measure and inventory forest vegetation with precision and accuracy.
- Develop an understanding of forestry investment analysis and be able to evaluate typical financial investments in forestry.
- Demonstrate an understanding of the development and execution of strategic, tactical and operational forest plans that support achievement of desired future stand conditions and strategic goals.
- Demonstrate an understanding of the social and political context of forestry and be able to describe current policies, laws, and regulations governing the management of forestlands.

Forestry students must choose one of three options within the major:

- Forest Management
- Forest Operations Management
- Forest Restoration and Fire

Pro-School (see p. 26):

The Forestry major operates on a pre/pro model. Students spend their first two years in the pre-Forestry program, and move to the professional Forestry program (or “Pro-School”) for their junior and senior years. Students remain in the Pre-Forestry program until completing the Pre-Forestry curriculum satisfactorily. Grades of C or better and a minimum GPA of 2.25 are required in all courses that are part of the Pre-Forestry curriculum. Pre-Forestry students will apply for admission to Pro-School to gain access to the junior/senior level courses. Application commonly takes place at the end of the sophomore year.

Field School:

Field School is an intensive two-week hands-on experience that prepares students for Pro-School. It is required of all students entering Pro-School and takes place during the two weeks prior to the start of the junior year.

Special Requirements:

- **S/U Grading**: Students majoring in Forestry may not take for S/U Grading (Satisfactory/Unsatisfactory) any course listed as a requirement for the major. This includes approved substitutions. Baccalaureate core courses may be taken S/U unless they are also being used to fulfill a program requirement.
- **Grades of C or better must be earned** in all required College of Forestry (FE, FOR, FES, NR, TRAL, WSE) courses (or approved substitutions).
- **Approved Work Experience:** Six months of work experience related to the major is required. Additional information can be found on page 64.

Forest Management Option (FM)

The Forest Management Option is a broad-based education, including basic courses in mathematics, statistics, biology and ecology, the physical and social sciences, professional courses in forest biology and ecology and forest management, and at least 6 months of work experience. Entry-level positions for graduates can include duties that span the full range of forest resource uses and management activities, including: fire control and prevention, watershed protection, wildlife habitat management, forest roads and trails, timber management and regeneration, forest health assessment and insect/disease control measures, community-based forestry, ecosystem services markets and carbon offset sales, and management consulting. Graduates are employed by private and public organizations. Private sector employers include the forest timber and wood products industries, forestry consulting firms, Non-Government Organizations (NGOs) and environmental organizations, and self-employment. Public employers include federal, state, and local government agencies such as the U.S. Forest Service, Bureau of Land Management, National Park Service, Peace Corps, and state departments of forestry and natural resources.

Note: The following courses fulfill requirements for the major. Students must also complete OSU's Baccalaureate Core to earn a degree. Major requirements that also fulfill a Baccalaureate Core requirement are marked with an asterisk (*).

Pre-Forestry Courses: First & Second Years (FM)

BI 204* or BI 212*	Introductory Biology I or Principles of Biology II
CH 231 & 261*	General Chemistry I & Lab
COMM 111* or COMM 114*	Public Speaking or Argument & Critical Discourse
ECON 201* or AEC 250*	Intro to Microeconomics or Intro to Environmental Economics & Policy
FE 208	Forest Surveying
FE 257	GIS and Forest Engineering Applications
FES 240*	Forest Biology
FES 241	Dendrology
FOR 111 or NR 201	Intro to Forestry or Managing Natural Resources for the Future
FOR 112	Computing Applications in Forestry
MTH 111*	College Algebra
MTH 112*	Elementary Functions
MTH 241*	Calculus for Management & Social Science
PH 201*	Principles of Physics I
SOIL 205*	Soil Science
FOR 206* or SOIL 206* & FOR 208	Soil Science Lab or Soil Science Lab & Forest Soils Recitation
ST 201	Principles of Statistics
TRAL 251	Recreation Resource Management
WR 121*	English Composition
WR 327* or WR 362*	Technical Writing or Science Writing

Professional Program: Third & Fourth Years (FM)

FE 370	Harvesting Processes
FE 434	Watershed Management
FE 444	Forestry Remote Sensing and Photogrammetry
FES 341	Forest Ecology
FES 355 or FES 477* or NR 455 or FES 485* or GEOG 300*	Management for Multiple Resource Values or Agroforestry or Natural Resource Decision Making or Consensus and Natural Resources or Sustainability for the Common Good
FES 412	Forest Entomology
FES 452	Biodiversity Conservation in Managed Forests
FOR 312	Field School
FOR 321	Forest Mensuration
FOR 322	Forest Models
FOR 329	Forest Resource Economics I
FOR 330	Forest Resource Economics II
FOR 413	Forest Pathology
FOR 442	Silviculture Reforestation
FOR 443	Silvicultural Practices
FOR 456*	International Forestry (or other Contemporary Global Issues course)
FOR 457	Techniques for Forest Resource Analysis
FOR 459	Forest Management Planning & Design I
FOR 469	Forest Management Planning & Design II
FOR 460* or FE 460*	Forest Policy or Forest Operations Regulations and Policy Issues
Additional 15 Credits	Upper-division restricted electives in Forestry

Forest Operations Management Option (FOM)

The Forest Operations Management Option is designed as a professional forestry degree that blends elements of forest engineering and forest management with business management and entrepreneurship. This option will prepare graduates to support the needs of an evolving forest sector in Oregon and the world. As they gain experience, graduates will have options to serve as project managers for logging or silvicultural contracting service firms, as consultants, or as company or agency contract administrators that supervise a growing contracting work force. Graduates will also be prepared to continue on to graduate school in a variety of disciplines that range from natural resources to business.

The educational objectives of the Forest Operations Management Option are to develop science, engineering and technical solutions that promote sustainable management of forest, land and water resources to meet society's economic, environmental and social needs. This option is intended for students who have strong interest in the operational aspects of industrial forest management. More specifically, students who wish to own or manage a contracting business that provides silviculture, harvesting, or transportation system services to larger companies or agencies, or be employed by companies or agencies to administer contracts and manage operations, much like project managers do in the construction business.

This option meets all of the coursework requirements for the Business and Entrepreneurship minor from the College of Business. Students in the Forest Operations Management Option must apply to the College of Business to be admitted to the Business and Entrepreneurship Minor.

Note: The following courses fulfill requirements for the major. Students must also complete OSU's Baccalaureate Core to earn a degree. Major requirements that also fulfill a Baccalaureate Core requirement are marked with an asterisk (*).

Pre-Forestry Courses: First & Second Years (FOM)

BA 215	Fundamentals of Accounting
BA 230	Business Law
BA 260	Introduction to Entrepreneurship
BI 204* or BI 212*	Introductory Biology I or Principles of Biology II
CH 231 & 261*	General Chemistry I & Lab
COMM 111* or COMM 114*	Public Speaking or Argument & Critical Discourse
ECON 201*	Intro to Microeconomics
FE 102	Forest Engineering Problem-Solving & Technology
FE 208	Forest Surveying
FE 257	GIS and Forest Engineering Applications
FES 240*	Forest Biology
FES 241	Dendrology
FOR 111 or NR 201	Intro to Forestry or Managing Natural Resources for the Future
MTH 111*	College Algebra
MTH 112*	Elementary Functions
MTH 241*	Calculus for Management & Social Science
PH 201*	Principles of Physics I
SOIL 205*	Soil Science
FOR 206* or SOIL 206* & FOR 208	Soil Science Lab or Soil Science Lab & Forest Soils Recitation
ST 201	Principles of Statistics
WR 121*	English Composition
WR 327* or WR 362*	Technical Writing or Science Writing

Professional Program: Third & Fourth Years (FOM)

BA 351	Managing Organizations
BA 390	Marketing
BA 314 or BA 460	Sustainable Business Operations or Venture Management
FE 370	Harvesting Processes
FE 434	Watershed Management
FE 440	Forest Operations Analysis
FE 444	Forestry Remote Sensing and Photogrammetry
FE 471	Harvesting Management
FOR 312	Field School
FOR 456*	International Forestry (or other Contemporary Global Issues course)
FOR 321	Forest Mensuration
FOR 329	Forest Resource Economics I
FOR 330	Forest Resource Economics II
FOR 442	Silviculture Regeneration
FOR 443	Silvicultural Practices
FOR 457	Techniques for Forest Resource Analysis
FOR 459	Forest Management Planning & Design I
FOR 469	Forest Management Planning & Design II
FOR 460* or FE 460*	Forest Policy or Forest Operations Regulations and Policy Issues

Forest Restoration & Fire Option (FRF)

The Forest Restoration & Fire Option emphasizes active management to accommodate, to prevent, to mitigate and/or to use forest disturbance processes as part of a forest management plan. Disturbance processes, such as wildfire, insect or disease outbreak, landslides, and windthrow, are important considerations in any actively managed forest, regardless of the specific management objective. In forests managed primarily for wood production, where the predominant disturbance is harvest, "natural" disturbance may pose risk of damage to timber values and disturbance management is primarily preventative. Where management objectives include recreation, biodiversity, restoration to historical conditions, or other ecosystem services, these disturbances may have beneficial outcomes; hence, management may include use of disturbance as a management tool or simply as part of a renewal process in a resilient and diverse forested landscape.

The Forest Restoration & Fire option is intended to provide students with the knowledge and the skillset to incorporate natural processes, including disturbance, explicitly into forest management planning, whether it be to prevent or mitigate damage resulting from disturbance or to use disturbance processes purposefully to achieve management objectives. This knowledge / skillset is particularly important for managing forests at the landscape scale and in the face of uncertainty and rapid change (e.g. in climate or in land use patterns). It will complement the existing degree options in ways that will expand the set of potential employers for graduates from the B.S. Forestry degree program.

The Association of Fire Ecology has granted accreditation for the Forest Restoration & Fire option.

Note: The following courses fulfill requirements for the major. Students must also complete OSU's Baccalaureate Core to earn a degree. Major requirements that also fulfill a Baccalaureate Core requirement are marked with an asterisk (*).

Pre-Forestry Courses: First & Second Years (FRF)

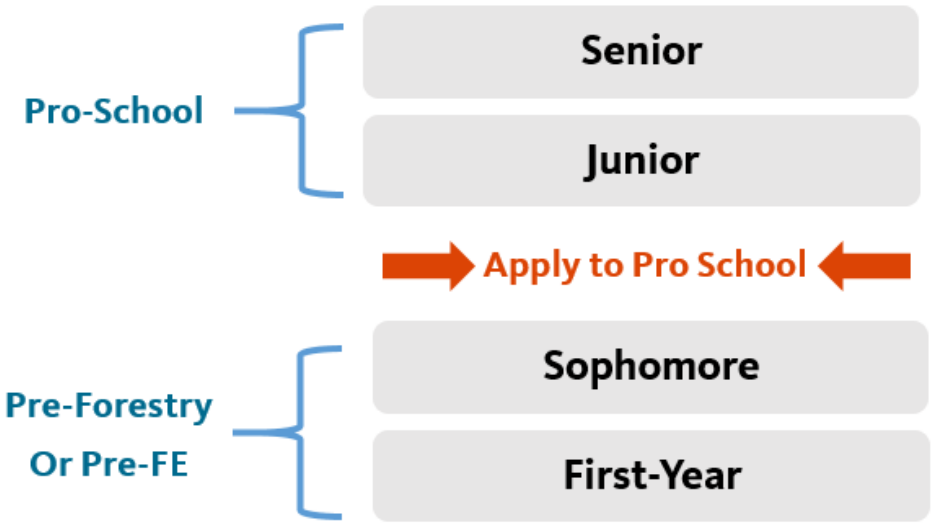
ATS 201 or ATS 310	Climate Science or Meteorology
BI 204* or BI 212*	Introductory Biology I or Principles of Biology II
CH 231 & 261*	General Chemistry I & Lab
COMM 111* or COMM 114*	Public Speaking or Argument & Critical Discourse
ECON 201* or AEC 250*	Intro to Microeconomics or Intro to Environmental Economics & Policy
FE 208	Forest Surveying
FE 257	GIS and Forest Engineering Applications
FES 240*	Forest Biology
FES 241	Dendrology
FOR 111 or NR 201	Intro to Forestry or Managing Natural Resources for the Future
FOR 112	Computing Applications in Forestry
MTH 111*	College Algebra
MTH 112*	Elementary Functions
MTH 241*	Calculus for Management & Social Science
PH 201*	Principles of Physics I
SOIL 205*	Soil Science
FOR 206* or SOIL 206* & FOR 208	Soil Science Lab or Soil Science Lab & Forest Soils Recitation
ST 201	Principles of Statistics
WR 121*	English Composition
WR 327* or WR 362*	Technical Writing or Science Writing

Professional Program: Third & Fourth Years (FRF)

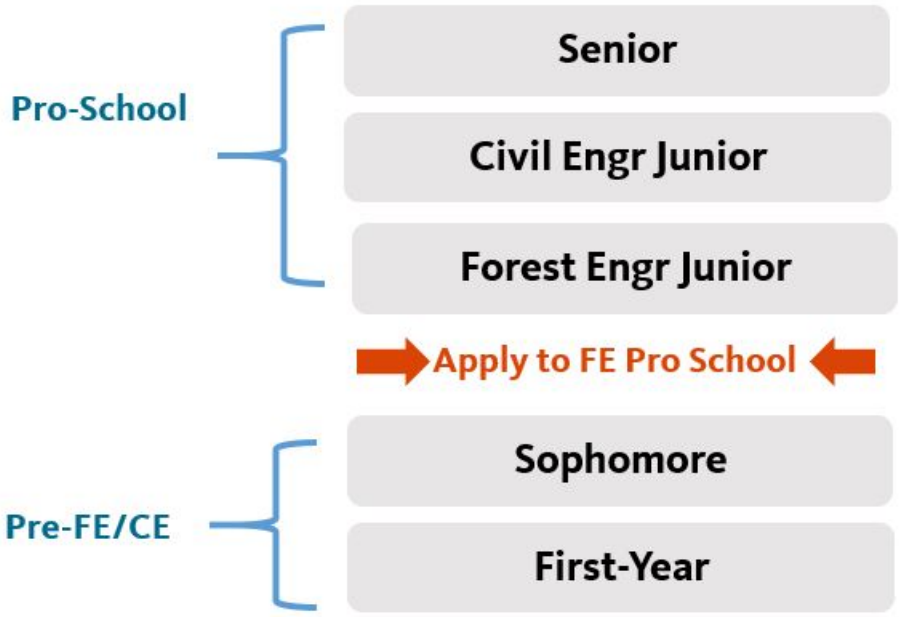
FE 370	Harvesting Processes
FE 434	Watershed Management
FE 436	Forest Disturbance Hydrology
FE 444	Forestry Remote Sensing and Photogrammetry
FES 341	Forest Ecology
FES 485*	Consensus and Natural Resources
FES 412	Forest Entomology
FES 440	Wildland Fire Ecology
FES 445	Ecological Restoration
FOR 312	Field School
FOR 321	Forest Mensuration
FOR 322	Forest Models
FOR 329	Forest Resource Economics I
FOR 330	Forest Resource Economics II
FOR 346	Topics in Wildland Fire
FOR 413	Forest Pathology
FOR 431	Economics and Policy of Forest Wildland Fire
FOR 436	Wildland Fire Science and Management
FOR 442	Silviculture Reforestation
FOR 443	Silvicultural Practices
FOR 456*	International Forestry (or other Contemporary Global Issues course)
FOR 457	Techniques for Forest Resource Analysis
FOR 459	Forest Management Planning & Design I
FOR 469	Forest Management Planning & Design II
FOR 460* or FE 460*	Forest Policy or Forest Operations Regulations and Policy Issues

Professional Program or "Pro-School"

Forestry and Forest Engineering Majors:



Forest/Civil Engineering Majors:



Program Overview: Natural Resources

Maintaining the integrity of the Earth's ecosystems is a key challenge of the 21st century. Increasing human population continues to place greater demands on our natural resources. Students in the Natural Resources program at Oregon State University gain an understanding of complex biophysical, social, and cultural systems shaping natural resource management. The Natural Resources program is an interdisciplinary degree. The degree emphasizes a broad-based approach to the study of natural resources, providing students the opportunity to combine areas of particular interest and focus on topics not otherwise offered at the undergraduate level.

With this degree program students will:

- Describe ecological processes, including human impacts that influence ecosystem change, natural succession and the future sustainability of natural resources.
- Envision desired future conditions in an area to achieve a set of natural resource-related objectives, prescribe management actions needed to achieve those objectives, and evaluate success of these actions.
- Describe how the use, management, and allocation of natural resources are affected by: laws, policies, economic factors (both market and non-market), and characteristics (including demographic, cultural, ethnic and values differences) of private and public resource owners and users.
- Communicate effectively, orally and in writing, with audiences of diverse backgrounds.
- Work effectively with, and within, interdisciplinary and diverse groups to resolve management problems and achieve management objectives.

Recent program graduates are working as natural resource specialists and planners with state and federal agencies, attending law school, training/working as teachers in K-12 education, and pursing graduate degrees in a variety of disciplines.

Natural Resources Curriculum

The Bachelor of Science in Natural Resources curriculum consists of three blocks of study.

- **NR Major Requirements:** The requirements cover interdisciplinary foundations of environmental problem solving, advanced communications, biophysical sciences, mathematics and statistics, resource management, social and political dimensions, and spatial analysis.
- **Option**: A focused areas of study that will tailor your degree to your career interests and goals. Minimum GPA for this block is 2.25. Minimum number of credits in the option is 40 with at least 20 upper division credits required.
- **Baccalaureate Core** (see pp. 7-8)

Note: The Natural Resources Program allows a maximum of two S/U graded courses in the major requirements and option.

Note: The following courses fulfill requirements for the major. Students must also complete OSU's Baccalaureate Core to earn a degree. Major requirements that also fulfill a Baccalaureate Core requirement are marked with an asterisk (*).

Natural Resources Core Categories (complete one course for each category):

Consensus & Natural Resources	FES 485. Consensus & Natural Resources
Managing Natural Resources	NR 201. Managing Natural Resources for the Future
Natural Resources Decision-Making	NR 455. Natural Resource Decision-Making
Advanced Communications	COMM 321. Introduction to Communication Theory COMM 322. Small-Group Problem Solving COMM 324. Communication in Organizations COMM 326. Intercultural Communication COMM 328. Nonverbal Communication COMM 385. Communication and Culture in Cyberspace COMM 440. Theories of Conflict and Conflict Management COMM 442. Bargaining and Negotiation Processes FES 430. Forest as Classroom FW 489 Effective Comm. for Fisheries & Wildlife Science NR 312. Critical Thinking for Natural Resource Challenges TRAL 493. Environmental Interpretation WR 327. *Technical Writing WR 362. *Science Writing WR 462. *Environmental Writing WR 466. Professional Writing
Biology I	BI 101. *General Biology BI 204. *Introductory Biology I BI 211. *Principles of Biology I
Biology II	BI 102. *General Biology BI 205. *Introductory Biology II BI 212. *Principles of Biology II
Biology III	BI 103. *General Biology BI 205. *Introductory Biology III BI 213. *Principles of Biology III
Chemistry	CH 121. General Chemistry CH 231 & 261. *General Chemistry with Lab
Climate Science	ATS 201. *Climate Science FW 345. Global Change Biology GEOG 323. *Climatology SUS 103. *Introduction to Climate Change

Earth or Soil Science	CSS 205. *Soil Science CSS 305. Principles of Soil Science GEO 101. *The Solid Earth GEO 201. *Physical Geology GEO 202. *Earth Systems Science GEO 221. *Environmental Geology GEOG 102. *Physical Geography SOIL 205 & SOIL 206. *Soil Science with lab SOIL 205 & FOR 206. * Soil Science with Forest Soils Lab
Ecology	BI 351. Marine Ecology (3) BI 370. General Ecology (3) BOT 341. Plant Ecology (4) FES 341. Forest Ecology (3)
Mathematics	MTH 112. *Elementary Functions MTH 241. *Calculus for Management and Social Science MTH 245. *Math for Mgmt, Life, and Social Sciences MTH 251. *Differential Calculus
Statistics	ST 201. Principles of Statistics ST 351. Introduction to Statistical Methods
Animal ID	FES 412. Forest Entomology FW 312. Systematics of Birds FW 316. Systematics of Fishes FW 318. Systematics of Mammals Z 365. Biology of Insects Z 437. Herpetology Z 477. Aquatic Entomology
Environmental Assessment & Planning	FES/FW 445. Ecological Restoration FW 462. Ecosystem Services GEOG 250. Land Use Planning for Sustainable Communities GEOG 450. Land Use in the American West GEOG 451. Planning Principles & Practices for Resilient Communities GEOG 452. Sustainable Site Planning RNG 421. Wildland Restoration and Ecology RNG 490. Rangeland Management Planning SUS 304. *Sustainability Assessment SUS 350. *Sustainable Communities TRAL 456. Planning for Sustainable Recreation TRAL 457. Planning for Sustainable Tourism NR 325. Scientific Methods for Analyzing NR Problems
Fisheries & Marine Sciences	BI 150. Introduction to Marine Biology BI/FW 302. Biology and Conservation of Marine Mammals BI 347. Ocean in Peril BI 351. Marine Ecology FW 320. Introductory Population Dynamics FW 323. Mgmt Principles of Pacific Salmon in the Northwest FW 426. Coastal Ecology and Resource Management FW 454. *Fishery Biology FW 465. Marine Fisheries FW 473. Fish Ecology FW 481. Wildlife Ecology OC 201. Oceanography OC 332. Coastal Oceanography

Forestry	FE/FOR 456. *International Forestry FES 240. *Forest Biology FES 341. Forest Ecology FES 342. Forest Types of the Northwest FES/HORT 350. Urban Forestry FES 440. Wildland Fire Ecology FES/FW 445. Ecological Restoration FES/FW 452. Biodiversity Conservation in Managed Forests FES/NR 477. *Agroforestry FOR 346. Topics in Wildland Fire FOR 441. Silviculture Principles
Land and Water	FE 430. Watershed Processes FE 434. Forest Watershed Management FW 326. Integrated Watershed Management FW 456. Limnology FW 479. Wetlands and Riparian Ecology GEO 306. *Minerals, Energy, Water, and the Environment GEO 307. *National Park Geology and Preservation GEO 308. *Global Change and Earth Sciences GEOG 340. *Introduction to Water Science and Policy GEOG 440. Water Resources Mgmt in the United States GEOG 441. International Water Resources Management RNG 355. Desert Watershed Management RNG 455. Riparian Ecohydrology and Management SOIL 366. Ecosystems of Wildland Soils SOIL 388. Soil Systems and Plant Growth SOIL 395. *World Soil Resources SOIL 466 Soil Morphology and Classification
Range	FES 440. Wildland Fire Ecology FES/FW 445. Ecological Restoration FOR 346. Topics in Wildland Fire RNG 341. Rangeland Ecology and Management RNG 351. Range Ecology I-Grasslands RNG 352. Range Ecology II-Shrublands RNG 421. Wildland Restoration and Ecology RNG 441. Rangeland Analysis RNG 442. Rangeland-Animal Relations RNG 490. Rangeland Management Planning
Vegetation ID	BOT 321. Plant Systematics BOT 414. Agrostology BOT 425. Flora of the Pacific Northwest FES 241. Dendrology HORT 226. Landscape Plant I: Decid. Hardwoods & Conifers HORT 228. Landscape Plant II: Spring Flow. Trees &Shrubs RNG 353. Wildland Plant Identification
Wildlife Management	FW 251. Principles of Fish and Wildlife Management FW 320. Introductory Population Dynamics FW 321. Applied Community & Ecosystems Ecology FW 435. *Wildlife in Agricultural Ecosystems FW 451. Avian Conservation and Management FES/FW 452. Biodiversity Conservation in Managed Forests FW 458. Mammal Conservation and Management FW 481. Wildlife Ecology Z 350. Animal Behavior

Ethics and Philosophy	AG 301. *Ecosystem Science of Pacific NW Indians ANTH 352. Anthropology, Health, and Environment ANTH 477. Ecological Anthropology ANTH 481. *Natural Resources and Community Values ANTH 482. *Anthropology of International Development FW 340. *Multicultural Perspectives in Natural Resources GEO 309. *Environmental Justice HST 481. *Environmental History of the United States NR 312. Critical Thinking for Natural Resource Challenges PHL 440. *Environmental Ethics PHL/REL 443. *World Views and Environmental Values
Natural Resource Policy	AEC 432. Environmental Law AEC 454. *Rural Development Economics and Policy FES 486. *Public Lands Policy & Management FOR 460. *Forest Policy FOR 462. Natural Resource Policy and Law FW 415. Fisheries and Wildlife Law and Policy FW 422. Intro to Ocean Law PS 473. US Energy Policy PS 475. Environmental Politics and Policy PS 477. International Environmental Politics and Policy
Political Issues	ENT 300/HORT 330. *Plagues, Pests, and Politics FOR 462. Natural Resource Policy and Law FW 350. *Endangered Species, Society and Sustainability NR 351. * Science and Resource Management PS 455. *The Politics of Climate Change PS 475. Environmental Politics and Policy PS 476. *Science and Politics PS 477. International Environmental Politics and Policy TRAL 352. Wilderness Management
Resource Economics	AEC 351. *Natural Resource Economics and Policy AEC/ECON 352. *Environmental Economics and Policy AEC 454. Rural Development Economics and Policy FOR 329. Forest Resource Economics I
Social Issues	FES 355. Management for Multiple Resource Values FES 365. *Issues in NR Conservation FW 325. *Global Crises in Resource Ecology GEOG 300. *Sustainability for the Common Good GEOG 240. *Climate Change, Water and Society GEOG 430. Resilience-based Natural Resource Management GEOG 431. Global Resource Development NR 351. *When Science Escapes the Lab SOC 381. Social Dimensions of Sustainability SOC 475. Rural Sociology SOC 480. *Environmental Sociology SOC 481. *Society and Natural Resources SUS 420. Social Dimensions of Sustainability TRAL 251. Recreation Resource Management TRAL 351. Outdoor Recreation Mgmt on Public Lands TRAL 352. Wilderness Management TRAL 353. Nature, Eco, and Adventure Tourism TRAL 354. Communities, Natural Areas, and Sus. Tourism WGSS 440. *Women and Natural Resources
Spatial Analysis	CROP/HORT 414. Precision Agriculture FE 257. GIS and Forest Engineering Applications FW 303. Survey of GIS in Natural Resources GEOG 201. *Foundations of Geospatial Science and GIS GEOG 360. GIScience I: GIS and Theory

Natural Resources Options:

Students must choose one option, a focused area of study tailoring the degree to your career interests and goals. More information about the options is available online: forestry.oregonstate.edu/undergraduate-programs/natural-resources

Conservation Law Enforcement (Corvallis and Ecampus)
Students will be prepared to enter careers in Conservation Law Enforcement with an understanding of the criminal justice system, environmental law and policy, human dimensions and sustainable resource management.

Ecological Restoration (Corvallis and Ecampus)
This option will help students understand complexities associated with restoration of terrestrial and aquatic ecosystems, and how restoration decisions involve significant interactions between ecological and social systems.

Fish & Wildlife Conservation (Corvallis, Ecampus, and Cascades)
This option prepares students for a career in the broad arena of natural resource and wildlife conservation. It emphasizes understanding the relationship between animal species and their habitat requirements and the ability to apply this knowledge to the management ecosystems as a means of conserving fish and wildlife.

Forest Ecosystems (Corvallis)
This option will assist students in understanding the nature of forest ecosystems and the processes by which they function. Course work includes an understanding of the multiple resources and values associated with forest ecosystems and some of the techniques involved in managing them.

Students in this area of specialization may be interested in becoming a certified Forester through the Society of American Foresters (eforester.org/). Natural Resource students can earn certification through Option #2 by meeting credit hour requirements for certification.

Human Dimensions (Corvallis and Ecampus)
The student will develop an understanding of the interconnectedness of human behavior and well-being and natural resources. It includes skills and knowledge to better understand the cultural, social, political and philosophical issues associated with natural resources, and prepares students to work with various stakeholders in natural resource management.

Integrated Conservation Analysis (Corvallis)
Students pursuing this option will learn to recognize, understand, analyze and evaluate complex natural resource problems through a cross disciplinary approach. They will contribute to finding solutions to these critical issues by developing depth of knowledge in a disciplinary focus and by preparing to work on cross disciplinary teams. Students will learn to communicate their findings effectively to diverse groups and apply conflict resolution, leadership, and collaboration skills effectively.

Landscape Analysis (Corvallis and Ecampus)
This option prepares students to work with Geographic Information Science technology in a natural resource fields such as wildfire ecology, land use planning, forestry, ecological restoration, and more. The pairing of the technical skills of GIScience with a disciplinary knowledge in a natural resource area will prepare students for the practical application of technical skills in the real world.

In addition, this specialization option will allow students to earn the GIScience Undergraduate Certificate through the College of Earth, Ocean, and Atmospheric Sciences concurrently with their BS degree through the College of Forestry.

Natural Resource Education (Corvallis and Ecampus)
This option will prepare students for careers as natural resource educators. Students may choose to focus on teaching in informal settings such as interpretive centers, aquariums, museums and parks or pursue a career in formal education in a K-12 classroom.

Students on the Corvallis campus may wish to explore the Education Double Degree program offered by the College of Education which allows students to earn a BA or BS in Education as well as their BS in Natural Resources. Courses in this option may be double counted with the Education Double Degree where applicable. Students in the Double Degree Program would seek Content Mastery for certification in biology or integrated science in order to teach in middle school or high school.

Policy and Management (Corvallis and Ecampus)
This option will prepare students for careers in the broad arena of natural resource management and environmental conservation, with an emphasis on the social and political aspects of resource issues.

Urban Forest Landscapes (Corvallis and Ecampus)
This option will help students understand the complexities surrounding the culture and management of urban forest ecosystems. It includes an examination of the economic, social, and environmental benefits and values of trees in urban areas, and the relationship between people and trees.

Wildland Fire Ecology (Corvallis and Ecampus)
This option will help students understand the nature of fire in wildland ecosystems. It includes an understanding of the dynamics of fire behavior and post-fire response.

Individualized Specialty Option – ISO (Corvallis, Ecampus, Cascades)
The Individualized Specialty Option is a student designed option that allows a student to tailor the academic program to specific goals or interests related to natural resource management. In consultation with their Academic Advisor, students will develop a written proposal for a program of study that meets their goals as well as academic requirements. Students should contact their assigned Academic Advisor for information on developing an Individualized Specialty Option.

Program Overview: Renewable Materials

The sustainable economy of your future relies heavily on the use of natural materials for the products we use, the buildings we live in and the energy we consume. You will help design this sustainable future by studying the science, business, manufacturing, and design of renewable materials. Renewable materials are quite diverse—including wood, bamboo, straw, hemp, cane, giant grasses, palm and many other plant-based materials. Sustainability and efficiently meeting the demand for products and energy made from these materials requires innovative scientists, engineers, and business people who want to make a difference.

A Bachelor of Science degree in Renewable Materials requires command of a broad range of technical, science, business, and design skills. The curriculum (which is accredited by Society of Wood Science & Technology – SWST) is under continuous review and revision to ensure that content and learning objectives are synchronized with both employer expectations and advancements in technology and science.

The program's educational goals are:

1) Prepare students to be both environmentally conscious and economically successful by using renewable materials to meet society's needs and solve important problems.
2) Equip students with professional skills and knowledge to use renewable materials to make positive contributions in a world that is rapidly becoming more complicated and challenging.
3) Equip students to work with, and in, diverse groups of professionals on a global scale.
4) Inform students how to start new businesses and develop new products based on renewable materials.
5) Equip students with a set of skills and tools for personal development and life-long learning for a successful career in the globalized economy.

With a degree in Renewable Materials you can pursue diverse and flexible career paths where you might develop new products/services, market those products/services, manage high-tech production operations, or design new and innovative products or art. Most people will change employers several times and be expected to shoulder many different responsibilities over the course of their professional lives. After successfully completing the RM curriculum, you will possess a firm foundation of skills and knowledge on which to build your career.

Renewable Materials students complete the RM Core Courses as well as the course required for one of these options:

- Advanced Wood Manufacturing
- Art & Design
- Management & Marketing
- Science & Engineering

Special Requirements:

- **S/U Grading**: Students majoring in Renewable Materials may not take any course listed as a requirement for the major for S/U Grading (Satisfactory/Unsatisfactory). This includes approved substitutions. Baccalaureate core courses may be taken S/U unless they are also being used to fulfill a program requirement.
- **Grades of C or better must be earned** in all required Forestry (FE, FES, FOR, NR, TRAL, WSE) courses (or approved substitutions).
- **Approved Work Experience:** Six months of work experience related to the major is required in order to graduate. Additional information can be found on page 64.
- **Area of Concentration-** RM students in Art & Design, Management & Marketing, or the Science & Engineering option are required to complete a customized Area of Concentration. This flexible block of credits is intended to give you a set of knowledge and skills particular to your interests and aptitude. Area of Concentration proposals are initiated and submitted by each student, usually during the sophomore year with academic advisor assistance, for departmental approval and addition to their required academic program. Your advisor can provide examples and more details.

Note: The following courses fulfill requirements for the major. Students must also complete OSU's Baccalaureate Core to earn a degree. Major requirements that also fulfill a Baccalaureate Core requirement are marked with an asterisk (*).

Renewable Materials Core: Required of all RM students

CH 121	General Chemistry I
CH 122*	General Chemistry II
COMM 111* or COMM 114*	Public Speaking or Argument & Critical Discourse
FES 240*	Forest Biology
FOR 111	Introduction to Forestry
FOR 112	Computer Applications in Forestry
WR 121*	English Composition
WR 214* or WR 327*	Writing for Business Technical Writing
WSE 111	Renewable Materials for a Green Planet
WSE 210*	Renewable Materials Technology and Utilization
WSE 225	Principles of Architectural Design with Renewable Materials
WSE 250	CAD: Computer Aided Design
WSE 320	Anatomy of Renewable Materials
WSE 321	Chemistry or Renewable Materials
WSE 322	Physical and Mechanical Properties of Renewable Materials
WSE 324	Renewable Materials Laboratory
WSE 453*	Forest Products Business
WSE 465	Renewable Materials Manufacturing Experience

Advanced Wood Manufacturing Option

This option complements the Renewable Materials core curriculum that develops students' knowledge of properties and behavior of bio-based materials. It adds a strong foundation in how the products are manufactured, as well as how the manufacturing processes are designed, managed, controlled, and optimized. Students will be exposed to important advanced topics such as automation, scanning and optimization systems, computer numerically controlled (CNC) machining, robotics, 3D printing, as wells as how emerging topics such as the Internet of Things (IoT) and Big Data may impact the future of manufacturing.

Advanced Wood Manufacturing Option Courses:

Course	Course Title
BA 215 or BA 315	Fundamentals of Accounting or Accounting for Decision Making
CH 123*	General Chemistry
ECON 201*	Introduction to Microeconomics
ECON 202*	Introduction to Macroeconomics
ENGR 390	Engineering Economy
IE 255 or ST 314	Intro to Quantitative Analysis of Industrial & Manufacturing Systems Introduction to Statistics for Engineers
IE/MFGE 285	Introduction to Industrial & Manufacturing Engineering
IE 366	Work Systems Engineering
IE 367	Production Planning and Control
MTH 251*	*Differential Calculus
MTH 252*	Integral Calculus
PH 201* or PH 211*	General Physics I or General Physics with Calculus I
PH 202* or PH 212*	General Physics II or General Physics with Calculus II
PH 203* or PH 213*	General Physics III or General Physics with Calculus III
WSE 350	Secondary Products Design & Manufacturing
WSE 351	Advanced CAD: Computer Aided Design
WSE 352	CAM for the CNC Router & Laser Engraver
WSE 425	Timber Tectonics in the Digital Age
WSE 450	Entrepreneurial Product Development I
WSE 451	Entrepreneurial Product Development II
WSE 455	Industrial Marketing in the Forest Sector
WSE 461	Bio-Based Product Manufacturing
WSE 462	Advanced Manufacturing I
WSE 463	Advanced Manufacturing II

Art & Design Option

The Art & Design option prepares students to engage with renewable materials on an aesthetic level, whether as interior designers, fine artists, or entrepreneurs. Students will gain not only an in-depth knowledge of renewable materials, but also how these materials can function visually within the human space. In addition to the aesthetic aspect, students will gain an understanding of green building materials and green architecture. Students with the Art & Design option may also earn a minor in Studio Art by completing 27 credits of applicable course work.

Art & Design Option Courses:

ART 115	Foundations: 2-D
ART 117	Foundations: 3-D
ART 131	Foundations: Drawing
ART 234	Drawing II/ Figure
ART 291	Sculpture I
DSGN 121	Computer Aided Design
MTH 245*	Mathematics for Management, Life, and Social Sciences
ST 201	Principles of Statistics I
ST 202	Principles of Statistics II
WSE 211	Woodturning with Science I
WSE 266*	Industrial Hemp
WSE 351	Advanced CAD
WSE 352	CAM for CNC/Laser Engraver
WSE 392*	Bamboolooza
WSE 414*^	Art and Design Capstone
Restricted Electives (Select at least 12 credits)	ART 101. *Intro to Visual Arts ART 121. Foundations: Computers in Visual Arts ART 208. *Intro to Asian Art ART 215. Color in the Visual Arts ART 263. Digital Photography ART 310. *Early Chinese Art and Archaeology ART 311. *Late Chinese Art and Culture ART 313. *Art of Japan ART 331. Drawing Concepts ART 351. Installation ART 367. *History of Design ART/WSE 413. Woodturning with Science II WSE 350. Secondary Products Design and Manufacturing WSE 450. Entrepreneurial Product Development I WSE 451. Entrepreneurial Product Development II Approved COF Int'l Programs
Area of Concentration	A minimum of 12 upper-division studio credits selected by the student in consultation with their advisor in order to align with the student's interests and goals.

Management & Marketing Option

The Management & Marketing Option provides students with the skills to manage organizations or devise new marketing strategies to compete in the global renewable materials industry. Students in this option will also earn a Business and Entrepreneurship minor. This option is oriented toward a career in business or management.

Management & Marketing Option Courses:

BA 211	Financial Accounting
BA 213	Managerial Accounting
BA 230 or BA 330	Business Law or Legal Environment of Business
BA 260	Introduction to Entrepreneurship
BA 351	Managing Organizations
BA 360	Introduction to Financial Management
BA 390	Marketing
DSGN 121	Computer Aided Design
ECON 201*	Introduction to Microeconomics
ECON 202*	Introduction to Macroeconomics
MTH 111*	College Algebra
MTH 241*	Calculus for Business & Social Sciences
ST 351	Introduction to Statistical Methods I
ST 352	Introduction to Statistical Methods II
WSE 455	Industrial Marketing in the Forest Sector
WSE 461	Manufacturing with Renewable Materials I
WSE 462	Manufacturing with Renewable Materials II
WSE 471	Renewable Materials in Building Construction
Restricted Electives (Select at least 12 credits)	AEC/ECON 352*: Environmental Economics & Policy BA 357: Operations Management BA 432: Environmental Law, Sustainability, and Business BA 451: Supply and Sourcing Management BA 458: Innovation and New Product Development BA 460: Venture Management ECON 340. International Economics FES 241: Dendrology MGMT 364: Project Management MGMT 452: Leadership MRKT 396: Fundamentals of Marketing Research MRKT 488: Personal Selling MRKT 489: Personal Selling Skills and Techniques MRKT 497: Global Marketing PS 477: International Environmental Politics and Policy Approved COF Int'l Programs
Area of Concentration	A minimum of 12 approved credits (including 8 upper-division credits) selected by the student in consultation with their advisor in order to align with the student's interests and goals.

Science & Engineering Option:

Science & Engineering has a strong technical emphasis with the flexibility to tailor your coursework to earn a minor in a variety of science or technology disciplines. Students work to solve problems, create efficiencies and promote intelligent use of renewable materials. This option is oriented toward a technical career, but also provides exposure to business practices and skills. A high interest and aptitude in math and science is required.

Science & Engineering Option Courses:

BA 215 or BA 315	Fundamentals of Accounting or Accounting for Decision Making
BA 230 or BA 330	Business Law or Legal Environment of Business
CH 123*	General Chemistry III
ECON 201*	Introduction to Microeconomics
ECON 202*	Introduction to Macroeconomics
IE/MFGE 285	Introduction to Industrial and Manufacturing Engineering
MTH 251*	Differential Calculus
MTH 252	Integral Calculus
MTH 254	Vector Calculus
PH 201* or PH 211*	General Physics I or General Physics with Calculus I
PH 202* or PH 212*	General Physics II or General Physics with Calculus II
PH 203* or PH 213*	General Physics III or General Physics with Calculus III
ST 314	Introduction to Statistics for Engineers
WSE 430	Fundamentals of Engineering Mechanics
WSE 461	Manufacturing with Renewable Materials I
WSE 462	Manufacturing with Renewable Materials II
WSE 471	Renewable Materials in Building Construction
WSE 473	Bioenergy and Environmental Impact
Area of Concentration	A minimum of 24 approved credits (including 12 upper-division credits) selected by the student in consultation with their advisor in order to align with the student's interests and goals.

Program Overview: Tourism, Recreation & Adventure Leadership

The Tourism, Recreation and Adventure Leadership (TRAL) major explores the importance of tourism and recreation in natural settings for community development, human health and quality of life, and the sustainable use of natural resources. Students will learn about management practices and public preferences to address contemporary tourism, recreation and outdoor leadership opportunities and issues in natural settings. Studies include decision making within applicable laws and across cultural contexts, as well as communication to a variety of audiences, and successful supervision of employees and volunteers.

The TRAL program emphasizes best practices for planning, developing, and managing recreation resources in natural settings. Students learn to evaluate and integrate experiential, economic, biophysical, and social concepts. They study interaction across natural resources and the consequences of development, management and marketing decisions.

The TRAL Core curriculum introduces studies in communication, management, research methods, recreation and tourism planning, and sustainability. Each student then chooses an option where they specialize for greater depth.

TRAL students must choose one of four options within the major:

- Outdoor Recreation Management (Corvallis Campus)
- Sustainable Tourism Management (Corvallis Campus)
- Nature, Eco, and Adventure Tourism (Bend Campus)
- Adventure Leadership Education (Bend Campus)

Special Requirements:

- **S/U Grading**: Students majoring in Tourism, Recreation & Adventure Leadership may not take any course listed as a requirement for the major or the option take S/U Grading (Satisfactory/Unsatisfactory). This includes approved substitutions. Baccalaureate core courses may be taken S/U unless they are also being used to fulfill a major requirement.
- **Grades of C or better must be earned** in all required courses for the major.
- **Approved Work Experience:** Six months of work experience related to the major is required. Additional information can be found on page 64.

Note: The following courses fulfill requirements for the major. Students must also complete OSU's Baccalaureate Core to earn a degree. Major requirements that also fulfill a Baccalaureate Core requirement are marked with an asterisk (*).

Tourism, Recreation, and Adventure Leadership Core – one course per category

COMM 111* COMM 114*	Public Speaking Argument & Critical Discourse
FES 422	Research Methods in Social Science
FES 485* ANTH 481* FW 340* FW 350* SOC 481* WGSS 440*	Consensus and Natural Resources Natural Resources and Community Values Multicultural Perspectives in Natural Resources Endangered Species, Society, and Sustainability Society and Natural Resources Women and Natural Resources
FOR 112	Computing Applications in Forestry
TRAL 493	Environmental Interpretation
ST 201 TRAL 378 @ Cascades	Principles of Statistics Tourism and Recreation Data Analysis (Bend students only)
SUS 350*	Sustainable Communities
TRAL 353	Nature, Eco, and Adventure Tourism
FES 444 @ Cascades TRAL 352 TRAL 357*	Ecological Aspects of Park Management (Bend students only) Wilderness Management Parks & Protected Areas Management
WR 121*	English Composition

** courses that also fulfill Bacc Core requirements*

Outdoor Recreation Management Option:

Designed for students pursuing careers as outdoor recreation planners and managers in public land management agencies and non-profit organizations at local, state, and federal levels. Students study land management, the process of permitting, and laws relevant to outdoor recreation. They create monitoring and assessment protocols for recreation resources in natural settings, and they learn to engage respectfully with individuals and groups that may have diverse perspectives and priorities regarding recreation opportunities. Students are trained to facilitate understanding and conflict resolution across these individuals and groups.

Students must complete one course in each category of the option, and these courses should be unique from those used in the TRAL Core.

Outdoor Recreation Management Requirements – one course per category

ECON 201* AEC 250*	Introduction to Microeconomics Introduction to Environmental Economics & Policy
FES 240* FES/FW 452 FES 341 FES 440	Forest Biology Biodiversity Conservation in Managed Forests Forest Ecology Wildland Fire Ecology
FW 251	Principles of Fish & Wildlife Conservation
TRAL 251	Recreation Resource Management
FOR 111 NR 201 NR 202	Introduction to Forestry Managing Natural Resources for the Future Natural Resources Problems & Solutions
AEC 351* TRAL 432	Natural Resource Economics and Policy Economics of Recreation Resources
ST 202	Principles of Statistics
TRAL 351	Outdoor Recreation Management on Public Lands
TRAL 354	Communities, Natural Areas, and Sustainable Tourism
FES 485*	Consensus and Natural Resources
FE 257 GEOG 360 FW 303	GIS and Forest Engineering Applications GIScience I: Geographic Information Systems and Theory Survey of Geographic Information Systems in Natural Resources
FOR 460* AG 421* ENSC 479* TRAL 375* @ Cascades	Forest Policy Writing in Agriculture Environmental Case Studies Experiential Education (Bend students only)
GEOG 452	Environmental Assessment
PS 477 FES 486* AEC 432 FOR 462	International Environmental Politics and Policy Public Lands Policy & Management Environmental Law Natural Resource Policy & Law
TRAL 456	Planning for Sustainable Recreation

** courses that also fulfill Bacc Core requirements*

Sustainable Tourism Management Option:

Designed for students pursuing careers as tourism destination planners, developers, and marketers in government, non-profit, or the private sector, in both domestic and international locations. This option applies business concepts to tourism, and explains best practices for planning, developing, and managing sustainable nature-based tourism. Students learn to create a business plan, apply business law principles, create marketing strategies, create financial statements, explain land management goals and permit processes. They learn to plan, develop and manage sustainable nature-based tourism in a manner that integrates experiential, economic, biophysical, and social data. They explore the consequences of development of natural resources in domestic and international tourism.

Students must complete one course in each category of the option, and these courses should be unique from those used in the TRAL Core.

Sustainable Tourism Management Requirements – one course per category

FOR 111 NR 201 NR 202	Introduction to Forestry Managing Natural Resources for the Future Natural Resources Problems & Solutions
TRAL 251	Recreation Resource Management
ECON 202*	Principles of Macroeconomics
ST 202	Principles of Statistics
TRAL 354	Communities, Natural Areas, and Sustainable Tourism
BA 260	Introduction to Entrepreneurism
FES 485*	Consensus and Natural Resources
FE 257 GEOG 360 FW 303	GIS and Forest Engineering Applications GIScience I: Geographic Information Systems and Theory Survey of Geographic Information Systems in Natural Resources
GEOG 450	Land Use in the American West
GEOG 451	Planning Principles and Practices for Resilient Communities
AEC 454 TRAL 432	Rural Development Economics and Policy Economics of Recreation Resources
BA 432*	Environmental Law, Sustainability, and Business
FOR 460* AG 421* ENSC 479* TRAL 375* @ Cascades	Forest Policy Writing in Agriculture Environmental Case Studies Experiential Education (Bend students only)
GEOG 452	Environmental Assessment
PS 477 FES 486* AEC 432 FOR 462	International Environmental Politics and Policy Public Lands Policy & Management Environmental Law Natural Resource Policy & Law
TRAL 457	Planning for Sustainable Tourism

** courses that also fulfill Bacc Core requirements*

Adventure Leadership Education Option:

Designed for students pursuing careers as educators, guides and managers/owners in the outdoor and adventure education field. With nature as the classroom, students learn how to educate others about the outdoors and guide them through life-changing outdoor experiences.

Adventure Leadership Education Requirements – one course per category

TRAL/PAC 110	Introduction to White Water Kayak
TRAL/PAC 111	Introduction to Canoeing
TRAL 130	Intro to Outdoor & Adventure Professions
TRAL 132*	Foundations & History TRAL Professions
TRAL 115	Outdoor Living Skills
TRAL 118	Lab for Outdoor Living Skills
TRAL/PAC 173	Intermediate Rock
TRAL/PAC 218	Rock Site Management
TRAL 215	Group Facilitation
TRAL/PAC 260	Intermediate Paddle Sport
TRAL 270	Pre-Internship Seminar
TRAL 280	Outdoor Leadership Fundamentals
TRAL 370	Design & Management of Outdoor Experience
TRAL 374	Outdoor & Adventure Education
TRAL 375^	Experiential Education
TRAL 377	Expeditions I (water)
TRAL 379	Expeditions II (land)
TRAL 476	Risk Management in TRAL
TRAL 479*	Nature & the Human Experience
TRAL 309	Certification Practicum
TRAL 410	Internship for Work Experience

Nature, Eco & Adventure Tourism Option:

Designed for students pursuing careers as managers or owners and guides in outfitter-guide and other natural resource based commercial recreation businesses (i.e., micro-level tourism). Students learn how to use business and natural resources skills to operate tourism companies specializing in creating outdoor experiences for members of the public. Students develop skills for effective decision-making and providing safe experiences in complex and dynamic environments.

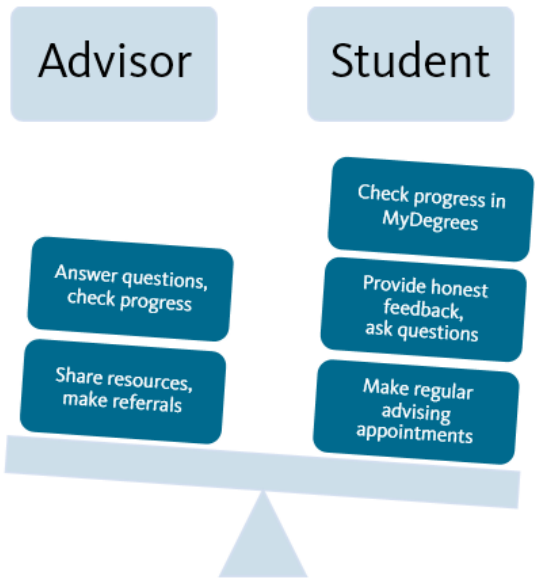
Nature, Eco & Adventure Tourism Requirements – one course per category

BA 315	Accounting for Decision Making
BA 260	Intro to Entrepreneurship
BA 352	Managing Individual & Team Performance
BA 390	Marketing
ECON 201*	Introduction to Microeconomics
TRAL/PAC 110	Introduction to White Water Kayak
TRAL/PAC 111	Introduction to Canoeing
TRAL 130	Intro to Outdoor & Advent Professions
TRAL 132*	Foundations & History of TRAL Professions
TRAL 115	Outdoor Living Skills
TRAL 118	Lab for Outdoor Living Skills
TRAL/PAC 173	Intermediate Rock
TRAL 215	Group Facilitation
TRAL/PAC 218 or TRAL/PAC 260	Rock Site Management or Intermediate Paddle Sport
TRAL 270	Pre-Internship Seminar
TRAL 280	Outdoor Leadership Fundamentals
TRAL 370	Design & Management of Outdoor Experiences
TRAL 375^	Experiential Education
TRAL 476	Risk Management in TRAL
TRAL 479*	Nature & the Human Experience
TRAL 309	Certification Practicum
TRAL 410	Internship for Work Experience

Academic Advising

Who is my advisor?

Your Academic Advisor is assigned based upon your major. Their name is listed on your MyDegrees page. Advisor information is outlined on page 45.



When do I see my advisor?

COF students are required to meet with their Academic Advisor at least once per quarter.

Fall: Halloween
Winter: Valentine's Day
Spring: Cinco de Mayo

You are welcome to have more than one meeting with your Advisor each quarter.

Advisor & Advisee Rights and Responsibilities:

The advising effort is one of mutual respect and collaboration between you and your advisor. If the process is to be effective, both you and your advisor must meet certain obligations. With that in mind, below are key responsibilities for your relationship.

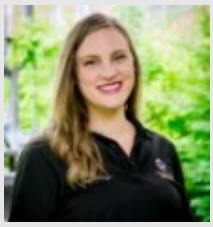
As an advisee, you should...	Your Advisor will...
Understand and accept that you are ultimately responsible for your education and your own decisions.	Develop a purposeful relationship with you and be your advocate.
Be prepared when you come to advising sessions; be active in your advising session. Ask questions.	Assist you in defining and developing your educational, career, and life plans.
Communicate your personal values, abilities and goals.	Provide timely and accurate educational information
Provide accurate and truthful information.	Promote learning opportunities that will help you define or meet personal goals and plans.
Initiate a purposeful relationship with your advisor and make appointments when in need of assistance.	Assist you in preparing an academic program that is consistent with your abilities and interests.
Utilize and regularly check your ONID email account.	Monitor your progress toward educational goals.
Call or email if you need to cancel an appointment.	Interpret and explain institutional policies, procedures and requirements.
Learn and understand OSU policies, procedures, and requirements as they relate to your academic success.	Inform you of available campus resources and special services that may be relevant to your situation.
Follow through on action plans that you have agreed to.	

Academic Advisors

Autumn Granger

116 Peavy Forest Science Center
541-737-9135
Autumn.granger@oregonstate.edu

Natural Resources
Renewable Materials



McKenzie Huber

116 Peavy Forest Science Center
541-737-2873
McKenzie.huber@oregonstate.edu

Natural Resources

Sandy Jameson

116 Peavy Forest Science Center
541-737-6548
Sandy.jameson@oregonstate.edu

Forestry
Forest Engineering
Forest-Civil Engineering

Nicole Kent

Snell 407
541-737-1592
nicole.kent@oregonstate.edu

Head Advisor

Terina McLachlain

116 Peavy Forest Science Center
541-207-3580
Terina.mclachlain@oregonstate.edu

Natural Resources Program Manager
Natural Resources

Beth Thompson

116 Peavy Forest Science Center
541-737-1179
beth.thompson@oregonstate.edu

Natural Resources
Tourism, Rec. & Adventure Leadership

How to Make an Advising Appointment

You should have at least one appointment with your advisor every term. Scheduling is easy.

1) Visit: forestry.oregonstate.edu/studentservices/advising

2) Find your advisor's picture. If you can't remember your advisor, you can find their name on your MyDegrees page.

Autumn Granger
116 Peavy Forest Science Center
541-737-9135

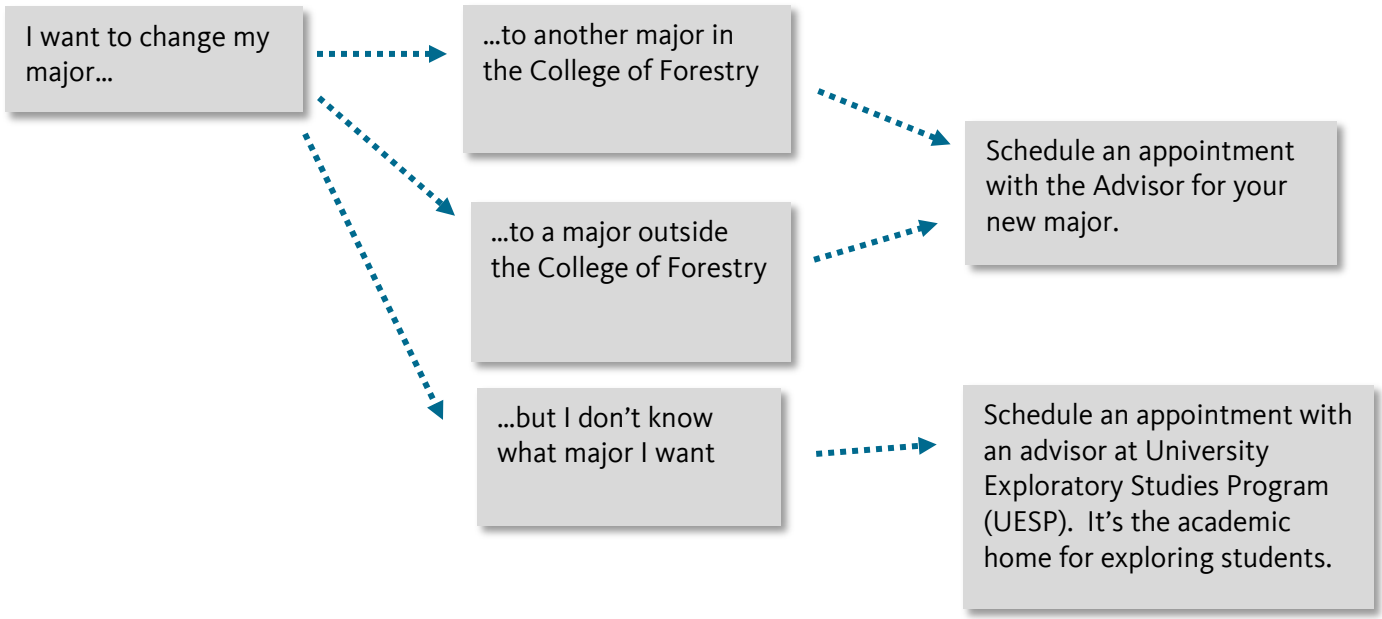
Autumn.granger@oregonstate.edu
Schedule an appointment with Autumn

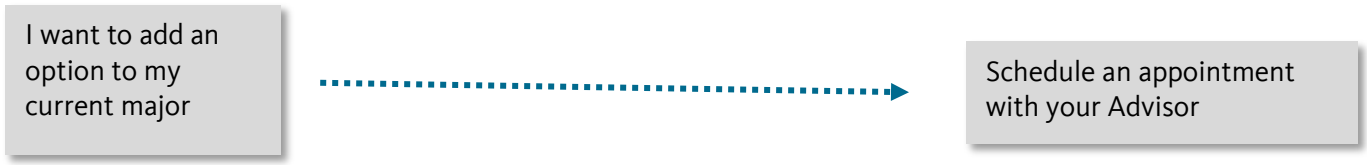
Natural Resources

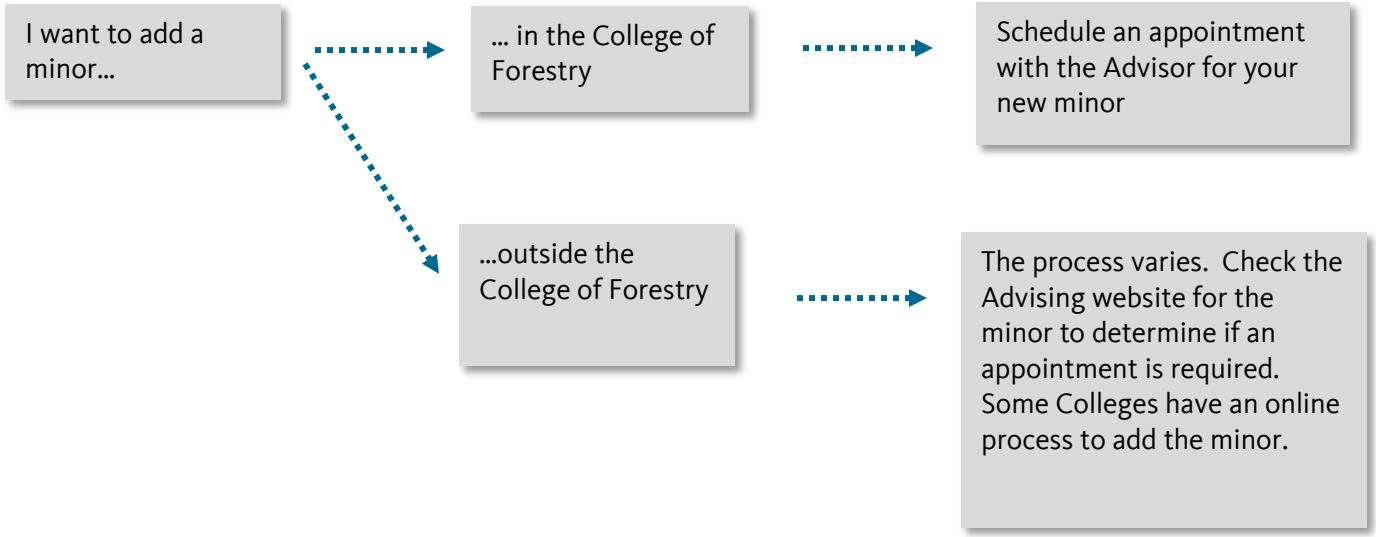
Renewable Materials

3) Click the "Schedule an Appointment with…" link to be directed to your advisor's calendar. Choose an appointment time. You'll receive an email confirming your appointment and a reminder email 24 hours prior to your appointment.

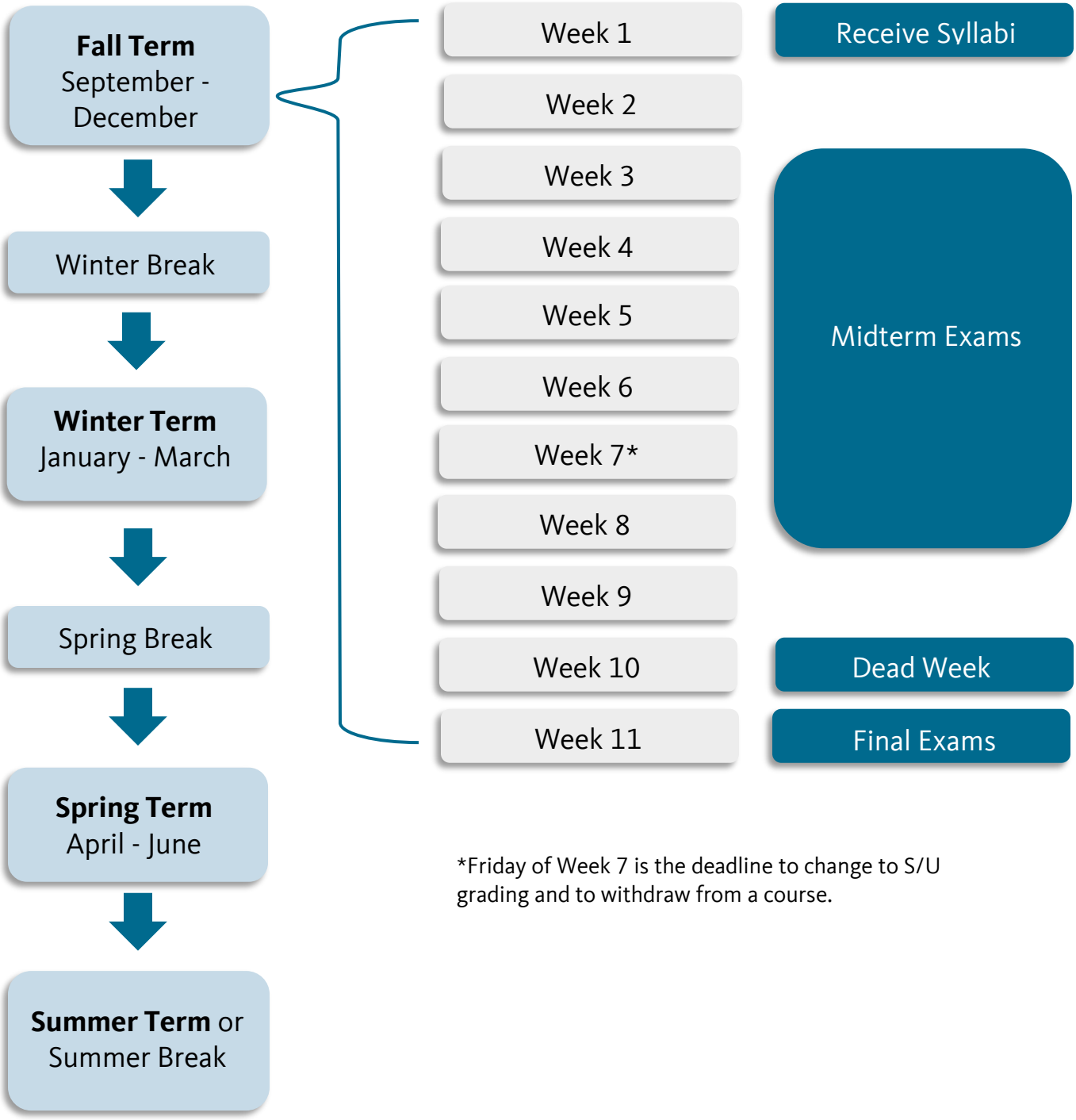
Changing Your Major







Anatomy of the Academic Year



*Friday of Week 7 is the deadline to change to S/U grading and to withdraw from a course.

Sample Fall Schedule for First Year Students

	What's required for my major?	My Fall Courses:
Orientation 2-3 credits	Forest/Civil Engr: CCE 101 & FE 101 Forest Engr: FE 101 & FOR 111 Forestry: FOR 111 TRAL: TRAL 251 & FOR 111 Ren. Materials: FOR 111 Nat. Resources: NR 201 in winter term	_____
Science 3 – 5 credits	Forest/Civil Engr: CH 201 Forest Engr: CH 201 Forestry: CH 231 & 261 TRAL: FES 240 Ren. Materials: CH 121 Nat. Resources: CH 121 or Biology	_____
Math 4 credits	Based on your placement (see page 50)	_____
Skills Course 2-3 credits	WR 121 – Last Names A – G COMM 111 or 114 HHS 231 and/or PAC course	_____
More Choices 1 - 3 credits	Bacc Core - See pages 7-8 Addt'l major course Elective - examples are music, PAC, foreign language, Military Science, etc.	_____

Sample Fall Schedule:

	Monday	Tuesday	Wednesday	Thursday	Friday
8am				MTH 111 Rec	
9am	CH 231 Lec	CH 261 Lab	CH 231 Lec		CH 231 Lec
10am					
11am				CH 231 Rec	
12pm	FOR 111 Lec				FOR 111 Lec
1pm	MTH 111 Lec		MTH 111 Lec		MTH 111 Lec
2pm		WR 121	FOR 111 Lab	WR 121	
3pm					
4pm					
5pm					

ALEKS Math Placement – Understanding Your Results

Your score on a math placement test is the most current and accurate indicator that can be used to help you select an appropriate first mathematics course at OSU. You should have received your score upon completion of the online "ALEKS" math placement test.

What course can I take?

The table below gives the score ranges needed to place into OSU's math sequences. You cannot register for a class higher than your placement indicates. Your academic advisor will assist you in identifying the most appropriate math course for fall term, and can answer questions about placement.

ALEKS Placement Score	OSU Math Class
0-14%	Preparatory math course at a community college
15-29%	MTH 065: Elementary Algebra
30-45%	MTH 103: Algebraic Reasoning
46-59%	MTH 111: College Algebra
60-74%	MTH 112: Trigonometry or MTH 241: Calculus for Management & Social Science MTH 245: Mathematics for Management, Life, and Social Sciences
75-100%	MTH 251: Calculus I

I think I can be successful in a course higher than my placement indicates

If you think you could be successful in a higher course, you can demonstrate your readiness for that course by retaking the placement test. The ALEKS placement test can be taken a second time, but first you must spend a minimum of 3 hours preparing for your retest by working through a learning module (see below). If you retake the test and improve your placement level, you can register for a higher math course. If you need assistance, or have questions about changing your registration, you should contact your academic advisor.

The ALEKS Learning Module

Every student who completes the ALEKS placement test has 6 months of free access to a learning module in ALEKS to review and practice before starting their OSU math class. The learning module is customized for you by the results of your placement test, so you can work on the areas you will benefit from the most. Your access period starts the first time you access the learning module.

AP/IB or College-Level Credit for Math

All new students are required to take the ALEKS math placement, even if you have earned college-level credit for a math class via a community college or CLEP/AP/IB exams. You will be allowed to register for the highest math class indicated by your college-level credit OR your ALEKS placement.

FAQ's about ALEKS Math Placement

math.oregonstate.edu/mlc-placement-home

Registration FAQs

When can I register for OSU classes?

Registration times are based on the total credit hours you've earned at the time of registration. Those with more credit hours (seniors) will register first, followed by juniors, sophomores, etc. Veterans and active duty military students register with seniors. Your exact registration day and time can be found in MyOSU.

How do I register for classes?

First, you must have an appointment with your Academic Advisor to plan your courses and receive your registration PIN. Appointment scheduling instructions are on page 48. Course registration is accessible via your MyOSU portal. You'll log in with your ONID username and password and select your courses. Instructions and tutorials are available online: registrar.oregonstate.edu/registration.

Can I take classes at a community college that will count toward my OSU degree?

Yes! Many of your Baccalaureate Core courses can be taken at a community college, and some of the lower-division (100 & 200 level) requirements for your major can be completed there as well. It's important to consult with your OSU academic advisor prior to taking a class to determine which courses can be completed at a community college, and how they will transfer to OSU. Recipients of certain scholarships may be required to take a minimum number of credits at OSU each term/year (COF scholarship recipients are required to be enrolled in at least 12 credits per term, 6 of which must be at OSU).

Students wishing to take multiple courses at a community college are encouraged to enroll in OSU's Degree Partnership Program (DPP). See page 74 for additional DPP information.

How do I drop or withdraw from a course?

Details about dropping or withdrawing from a course are available here: https://registrar.oregonstate.edu/dropwithdraw-course.

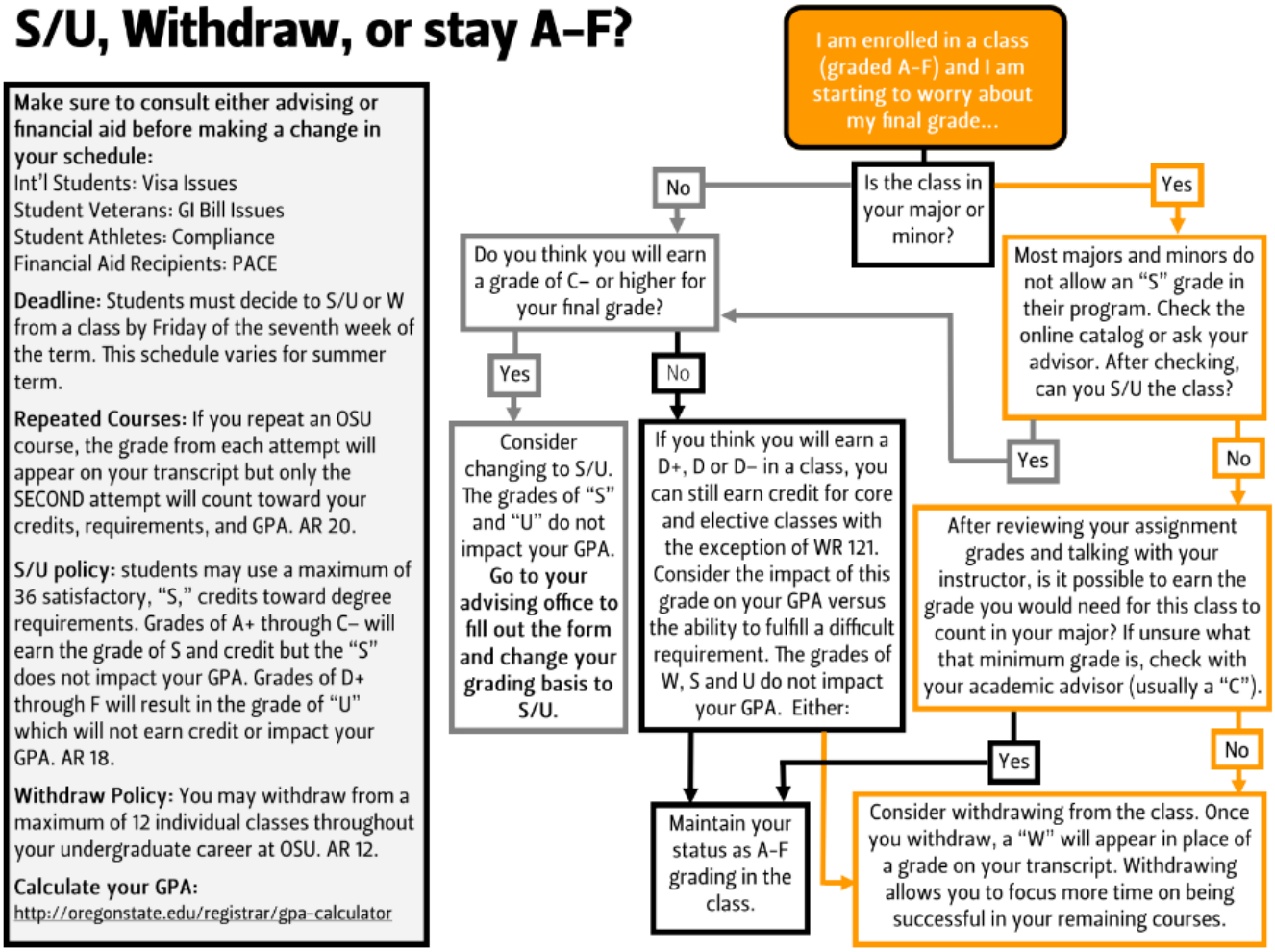
Withdrawing from the Term

Students needing to withdraw from all their courses can withdraw from the term. Details here: https://registrar.oregonstate.edu/withdraw-term

Academic Difficulty

If a class isn't going well...

1) Consult the Instructor for suggestions about improving your performance. They can answer questions, provide practice problems or study resources, and even connect you with a tutor if you want one.
2) Consult your Academic Advisor about options for alternative grading. Depending on the course, and the time in the term, you may be able to change from A-F grading to Satisfactory/Unsatisfactory (S/U) grading. There may also be an option to withdraw from the course. You can find more information about S/U and W grading in the Terminology section (pp. 80-83)

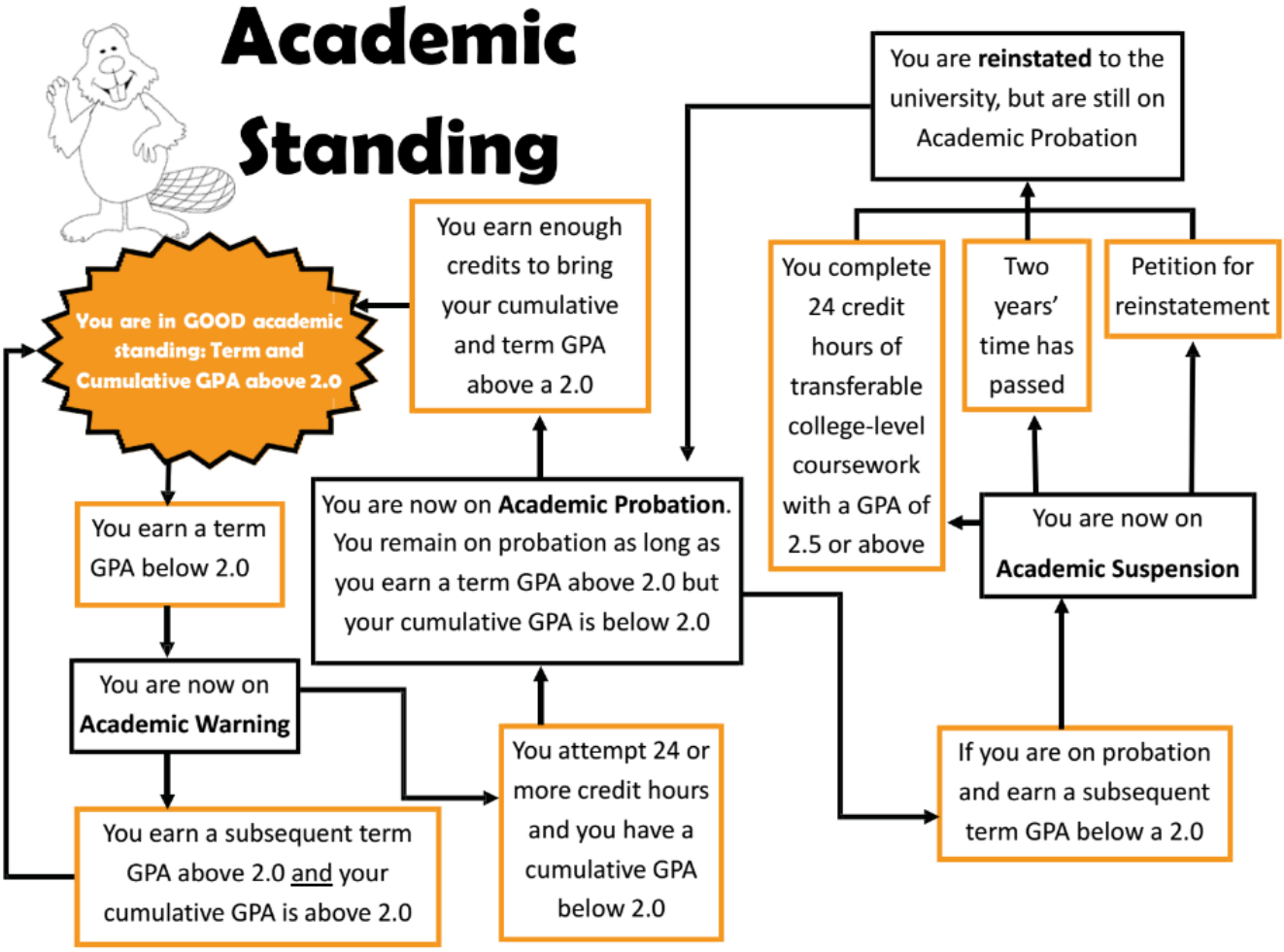


Academic Warning & Academic Probation

All students begin their OSU career in good academic standing. Keeping your term and cumulative GPAs above 2.00 will help you remain in good academic standing.

In the event that your OSU GPA or term GPA drops below 2.00, you may be placed on Academic Warning or Academic Probation. The full policy is available in Academic Regulation #22: catalog.oregonstate.edu/regulations/

Students are strongly encouraged to consult with their Academic Advisor if concerns about academic standing arise.



Resources

Resources in the College of Forestry:
forestry.oregonstate.edu/studentservices

- Academic Advisors (pp. 46-48)
- COF Student Resources & Engagement (pp. 57-58)
- College Forests (p. 72)
- Computing Support (p. 73)
- Employment Opportunities (p. 65)
- Fernhopper Newsletter (p. 57)
- International Programs (pp. 68-71)
- FERN Student Center (p. 59)

Online Resources:
main.oregonstate.edu/

- Canvas
- MyDegrees
- MyOSU
- Google Apps for OSU
- OSU Catalog & Schedule of Classes

University Resources:

Academic Calendar	Academic Regulations
Academics for Student Athletes	Academic Success Center (ASC)
Catalog & Schedule of Classes	Career Development Center (CDC)
Collaborative Learning Center (CLC) – Library	Counseling & Psychological Services (CAPS)
Disability Access Services (DAS)	Dean of Student Life
Degree Partnership Program (DPP)	Ecampus
Educational Opportunities Program (EOP)	Financial Aid & Scholarships
Economics Tutors	Math Learning Center
Military and Veterans Resources	Mole Hole (Chemistry Assistance)
Parents & Family Outreach	Office of the Registrar
Statistics Tutors	Student Health Services (SHS)
Student Multimedia Services	Summer Session
Transfer Students	University Honors College (UHC)
Valley Library	Worm Hole (Physics Assistance)
Writing Center	

Student Resources & Engagement

COF Student Resources & Engagement:

- Provides services and resources to enhance the educational environment of our undergraduate students
- Collaborates with advisors and faculty in the college to offer co-curricular support
- Administers a $500,000+ annual scholarship program for COF students
- Supports COF student clubs and organizations
- Coordinates the College's Ambassador program
- Offers professional development and career planning resources and events
- Aids students in developing social, leadership and teamwork skills; enjoying recreational and educational activities; and getting involved and connected within their respective fields
- Provides resources to help students become competent, innovative, and professional members of their fields
- Helps students find meaningful employment by developing a list of agencies, search engines, and our own employment opportunities site
- Produces publications to educate students about the College and the opportunities it presents; and to inform students about news, scholarships, job openings, and educational opportunities

Fernhopper Newsletter/Blog
blogs.oregonstate.edu/fernhopper/

COF Student Resources & Engagement | 116 Peavy Forest Science Center | 541-737-1594
forestry.oregonstate.edu/studentservices

COF Student Resources & Engagement – Events & Activities

Annual Ring	Annual Ring is the College's traditional welcome event for new undergraduate students. It's a chance to socialize with fellow students COF faculty and staff. The event includes food, games, and prizes at the Forestry Club Cabin in the McDonald Dunn Forest. Annual Ring is held during Welcome Week (prior to the start of Fall term) and invitations are emailed to new students around Labor Day.
Mentored Employment Program	The Mentored Employment Program provides College of Forestry (CoF) undergraduate students paid opportunities to work with members of CoF Faculty on research projects and/or field experiences. These types of experiences enhance students' professional skills, build important mentor/protégé relationships and guidance while assisting faculty with important work. CoF undergraduate students are eligible and encouraged to apply for these opportunities. Priority funding is available to students from diverse, underrepresented, or underserved backgrounds that enhance a pluralistic community in the College of Forestry.
Job Shadow Program	The College of Forestry provides prospective and current students the opportunity to get an up-close look at various forestry and natural resources careers through a job shadow experience. This program will help students connect with participating employers for a chance to learn more about career paths available after graduation.
Experiential Learning Funds	Funds are available through the Office of Student Resources & Engagement to help students access opportunities to participate in conferences, workshops, seminars or similar activities that offer educational enhancements, professional development opportunities, and/or leadership experiences.
Lunch with Leadership	College of Forestry students are encouraged to join Dr. Randy Rosenberger, the Associate Dean for Student Success, for lunch once per term. Dr. Rosenberger enjoys meeting with CoF students who would like to share ideas, concerns or just talk about current events in the college. This is a great way to make your voice heard to the CoF leadership team.
Professional Development Workshops	Throughout the academic year, we collaborate with other offices on campus to offer workshops on everything from resume writing and salary/benefit negotiation, to how to apply for state/federal job, and professional social media and email etiquette.
Career Tours	Join us each term as we visit a local employer to learn about their company or agency, take a tour of their facilities, and start networking and learning new things!
Career Development Day	Visit with and learn from local, regional, and national employers. Enhance your skills, engage with employers, and energize your job search and your career! Held Spring term.

FERN Student Center

The FERN Center is a student-focused learning environment that serves the students of the College. In addition to housing course reserve materials, the FERN Center makes learning tools and small equipment such as whiteboards, computer adapters, handheld magnifying lenses, engineering scales, calculators etc. available for check-out. Wood sample kits are also available for use in the FERN Center.

FERN Center hours:

Monday – Thursday	8:30 am - 10:00 pm
Fridays	8:30 am - 5:00 pm
Sundays	12:00 pm – 10:00 pm

Located in 113 Peavy Forest Science Center
541-737-4160
cofslc@oregonstate.edu
forestry.oregonstate.edu/studentservices/self-learning-center

Clubs & Organizations

The College of Forestry supports several student clubs and organizations. Club leaders and contact information are available online:
forestry.oregonstate.edu/studentservices/student-clubs

Forest Utilization Society (FUSE)

The goal of this student organization is to bring a spirit of fellowship to students, faculty, and employers, and to promote awareness about forest products and forest products issues. Officers include a president, vice-president, secretary/treasurer, and project coordinator. Membership is open to anyone interested in forest products. Activities include social events, hosting guest speakers, and field trips to local companies and mills.

FUSE Members at the Inter-Club Bowling Tournament

Forestry Club

The Forestry Club is primarily an informal social group providing a means for interaction between different majors within the forestry profession, and promoting student interaction and activities with regard to forestry. The club organizes and sponsors numerous intercollegiate events, such as the logging sports team, forester's ball, woodcuts, forestry club Olympics, charity events, ski trips, and outdoor recreation activities. The club also works closely with the College administration to assist with College events.

Forestry Club Members at Fall Frost

A current and future aim of the club is to create a closer relationship to the local community by sponsoring charitable fundraisers and donations. The Forestry Club is rich in tradition and has provided many valuable experiences for its members outside the academic arena.

Forest Stewards Guild

Founded in 2018, the Forest Steward Guild is a student chapter of the national professional organization of forest stewards, associated natural resource professionals, and affiliates who are passionate about restoring and sustaining the integrity of our forests while meeting the needs of the communities that rely on them. All Guild members share a love of forests, and professional members are actively involved in land management.

Society of American Foresters (SAF) Student Chapter

OSU was granted a charter by the Society of American Foresters (SAF) in the fall of 1980 to form a student chapter. Student members must be undergraduate or graduate students in programs closely related to forestry and natural resources. Both faculty and students are welcome.

The goals of the SAF Student Chapter are to promote professionalism in the field of forestry, encourage interaction between professional foresters and students, provide opportunities for taking part in active forest management projects, and help educate the public about forest resources and their management. In addition, the SAF Student Chapter strives to build fellowship among students and provide an opportunity to openly discuss and debate forestry issues.

SAF Members represent OSU at their National Convention

SAF activities include a job fair, managing a Christmas tree farm, hosting guest speakers, participation in community natural resource education, and travel to State and National SAF Conventions.

Xi Sigma Pi Forestry Honor Society

Xi Sigma Pi, a forestry honor society, was founded at the University of Washington in 1908. The Zeta Chapter was established at OSU in 1921.

The society's objectives are “to secure and maintain a high standard of scholarship in forestry education, to work for the up-building of forestry, and to promote productive relations among earnest workers engaged in forestry activities.”

International Forestry Students' Association (IFSA)

IFSA is an international network of forestry students around the world, in all areas of the forestry field. Members vary in experiences and fields of study and are both graduate and undergraduate. IFSA's vision is for, "...global cooperation among students of forest sciences in order to broaden knowledge and understanding to achieve a sustainable future for our forests and to provide a voice for youth in international forest policy processes."

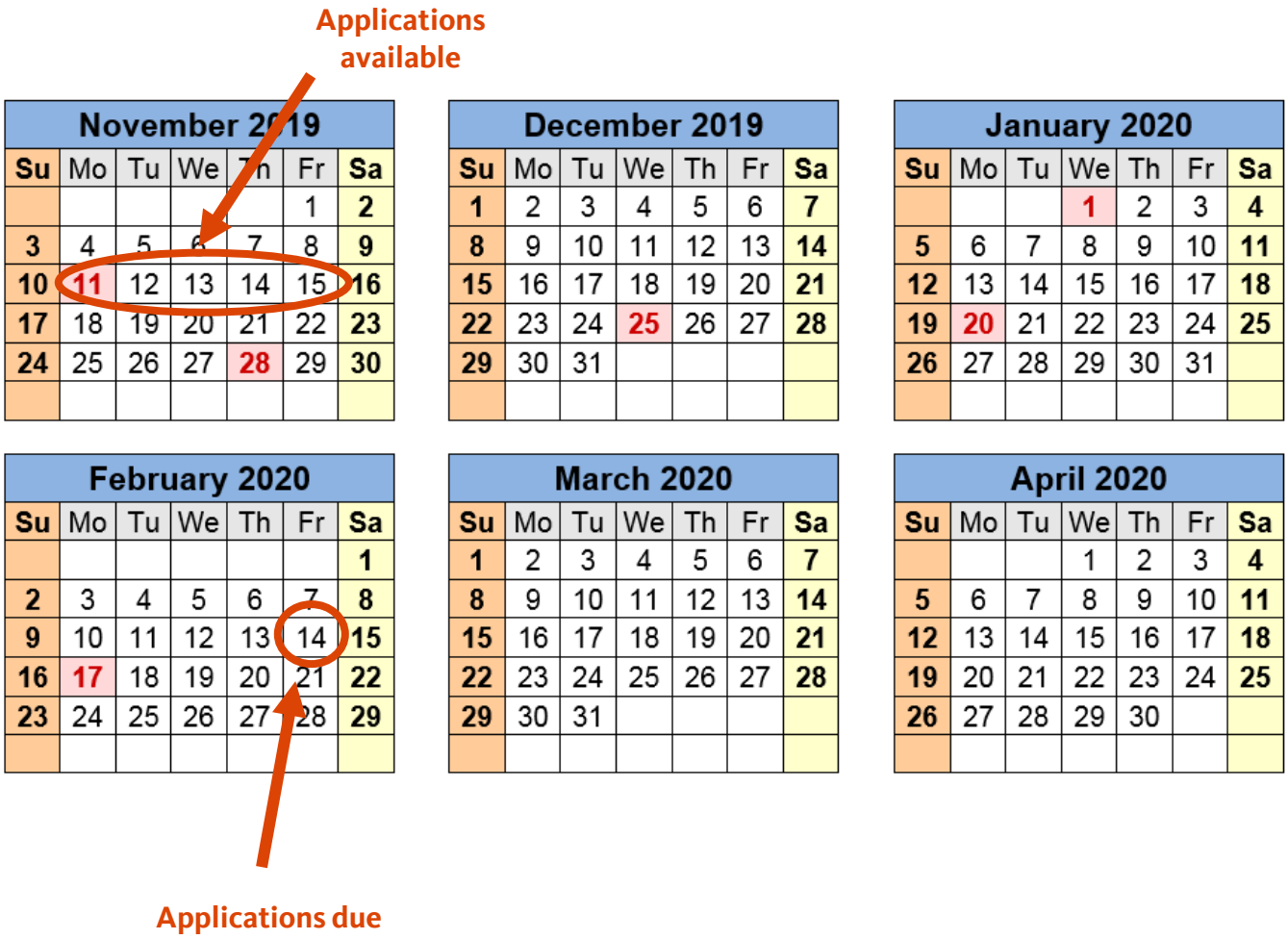
Learn more at https://www.ifsa.net/. Questions may be sent to ifsa.osu@gmail.com

College of Forestry Scholarships

Through the generosity of our donors, the college awards over $500,000 in undergraduate scholarships each academic year. Individual awards range from $1000 to $11,000. While scholarships are generally based on academic performance, some are specific to need, degree program, or other criteria set by our donors, so all students are encouraged to apply. New and current COF students are eligible to apply for COF scholarships.

Scholarship applications are generally available in mid-November and due on February 15th. Additional information and the application are available online: forestry.oregonstate.edu/studentservices/scholarships

Application timeline for 2019-2020 Scholarships:



Work Experience Requirement

Students in Forestry, Renewable Materials, Forest Engineering, Forest/Civil Engineering, and Tourism, Recreation & Adventure Leadership must complete a minimum of six months of work experience as part of their degree requirements. Students in Natural Resources are not required to complete work experience, but it is highly recommended. The procedure for documenting completed work experience is as follows:

1) Students complete the Work Experience Practicum form available online: forestry.oregonstate.edu/studentservices/work-experience

2) Employer evaluation requests are routed to the student's supervisor to evaluate performance and confirm dates of employment and number of hours worked.

3) Completed employer evaluations are reviewed and evaluated by a designee from the student's academic department for certification.

4) Certified Work Experience Practicum Forms are reviewed and evaluated by your academic advisor, and documented in MyDegrees.

All work experience forms should be completed at least three months (one term) prior to your expected graduation date to allow adequate time for employer evaluations and updating of your student record**.**

Failure to document required work experience in a timely manner could delay your graduation.

Employment Opportunities

Position Announcements

Seasonal, internship, part-time, and full-time job announcements are posted on the COF website:

COF Student Employment Opportunities: jobs.forestry.oregonstate.edu
Job Search Resources: forestry.oregonstate.edu/studentservices/employment-opportunities
Handshake: career.oregonstate.edu/students/handshake

College of Forestry Career Fair

COF hosts an annual career fair for current students. Employers from private industry and public agencies send representatives to the career fair in search of interns, volunteers, seasonal workers, and part- or full-time employees. The career fair is held in fall term.
forestry.oregonstate.edu/studentservices/career-fair

On-Site Interviews

The College of Forestry provides employers the opportunity to conduct interviews with students at the College. These opportunities are announced in the Fernhopper Newsletter (p. 57).

Career Development Center Appointments and Drop-In Hours

OSU's Career Development Center provides access to their resources in the College of Forestry. Whether you want to explore career options, talk about internships, practice interviewing, or get help with your resume and cover letter, Britt Hoskins will assist you.

Britt Hoskins, College of Forestry Career Liaison
116 Peavy Forest Science Center
541-737-4085
Appointments via Handshake (oregonstate.joinhandshake.com/login)

You can also drop in to the Career Development Center in the first floor of Kerr Administration. Hours are 9am – 4pm, Monday – Friday.

College of Forestry Career Development, Advising and Open Jobs!

Did you know that the College of Forestry has a dedicated career advisor? You can make appointments with **Britt Hoskins** in Handshake.

Come in for resume/cover letter help, job searching strategies, career exploration, practice interviews — whatever you need to prepare for your career, get internships or just to explore. She also has weekly open drop-in hours.

Don't forget about drop-ins in the main Career Development Center, Kerr Administration Building, first floor. Someone is standing by to help with your resume and cover letter: 9 a.m. to 4 p.m., Monday through Friday. No appointments necessary!

Get Hired With Handshake

Did you know the platform is used by

200,000+ employers?

- Explore thousands of jobs and internships
- Track application deadlines
- Connect with employers
- Research career opportunities
- Sign up for OSU career events
- Arrange interviews

How to Get Started

1. **Login with your ONID**
   oregonstate.joinhandshake.com
2. **Update Your Profile**
   Include as much relevant experience as possible (jobs, projects, volunteering, coursework).
3. **Make Yourself Public to Employers**
   Click "Settings & Privacy," then "Allow employers to be able to find and view my profile," then "Save Update".
4. **Set Notification Preferences**
   Click "Notifications" and "Edit Notification Preferences" to choose when you want to hear from Handshake.
5. **Find Jobs**
   Under "Jobs" tab, click "Filters" button. Search by employer industry, job type, location, etc. Many jobs never get applications. Don't miss out!
6. **Register for Career Events**
   Use "Events" tab to register for career expos, workshops and college-specific events at no cost.

Experiential Education

The College of Forestry offers several different programs designed to allow students to gain experience in the fields of forestry and natural resources and to develop relationships with faculty and staff.
forestry.oregonstate.edu/studentservices/experiential-education

Mentored Employment Program

Through generous support from forestry friends, alumni, and other stakeholders, this program offers paid opportunities for undergraduate students to form meaningful professional relationships with faculty through mutually beneficial and rewarding research experiences. Any undergraduate or post-baccalaureate student in good standing, enrolled in any COF undergraduate degree program, on any campus, can apply. Funding varies year to year.

These experiences are typically take place during the academic year, and are less than 20 hours per week. Projects are chosen during fall term, begin as early as winter term, and can last through spring term. Projects are supported if they clearly benefit both the student and the faculty member and contribute to the mission of the College of Forestry (teaching, research, outreach, Extension, and service). Please contact Brooke Harrington (541-737-1593, brooke.harrington@oregonstate.edu) for details.

Job Shadow Program

The Job Shadow Program offers students a chance to explore a variety of career paths by shadowing an employer as they do their job, answer questions, introduce you to the colleagues, and offer insight about their position. Job shadow experiences are an excellent way to start learning more about careers in forestry, natural resources, wood products and outdoor recreation. Learn more about this program by visiting our website forestry.oregonstate.edu/studentservices/job-shadow-experiences or contacting Brooke Harrington (541-737-1593, brooke.harrington@oregonstate.edu)

International Opportunities

Naima Ain in Borneo. Summer 2018

Broaden Your Horizons: Study, Intern, Research Abroad

Kerry Menn, International Programs Coordinator
116 Peavy Forest Science Center | Kerry.menn @oregonstate.edu

Michele Justice, Director of International Programs
116 Peavy Forest Science Center | Michele.justice@oregonstate.edu

forestry.oregonstate.edu/international
http://cofinternational.weebly.com/

It goes without saying that forestry is a global field; whether you're learning about strategies in forest management, investigating sustainability in forest ecosystems, interested in the connections between people and forests, or focused on innovative development in wood technology, you're going to want to know what's going on worldwide. The COF strongly believes that international experience is critical to your education, and is dedicated to making international experiences accessible and affordable for its students. Whatever your major or financial situation, we will work with you to find the exchange, study abroad, research or internship opportunity that meets both your needs and goals.

Providing international experiences to our students is a core value to our College, and these experiences can greatly influence both the mindset of our students and the marketability of their degrees.

There are programs tailored to every major, and international experiences are an integral part of your academic career – with advanced planning, participating in one of these life-changing opportunities will not lengthen your degree program.

Students and International Programs Coordinator Kerry Menn in Chile, Spring 2018

Funding international experiences: At first, international study might appear to be outside the financial reach of many students, but that is not really the case. For all of our students, both scholarships and financial aid can be applied to international programs; COF has set aside funding specifically for this type of experience. For non-resident and international students, these opportunities can be even more affordable, as they are often close in price to current in-state tuition. Visit the Funding Your International Experience page to learn more: forestry.oregonstate.edu/international/funding-your-international-experience.

"Travelling to Chile was my first time ever leaving the United States or speaking to people in a language other than English. Throwing myself into such a different environment and applying cutting edge research techniques was terrifically challenging, fulfilling, and enlightening."

Johnathan Tenny, Forest Engineering
Research Assistant with Dr. Andres Iroume at Austral University, Valdivia, Chile

Program Types

On all programs offered by CoF or other units at OSU, students can normally use financial aid and scholarships to help cover program costs. All of the experiences below are credit bearing.

Faculty-led programs: Generally 1-4 weeks in length with a specific thematic focus, OSU faculty leads these programs during the summer, winter break, and spring break. Many include studying with peers or faculty from partner universities abroad. The College of Forestry offers several of these programs each year, including programs in Alpine Europe, Malaysian Borneo, Costa Rica and Chile.
International Internships: The College of Forestry has its own international internship program, with placements all over the world. Students may also consider IE3 Global Internships. Most internships are a minimum of ten weeks in length, and are available in all majors. These internships satisfy College work experience requirements
Exchange programs: Typically semester or academic year experiences, where students are integrated into host university academic models and student communities. Offer the broadest range of available courses, and are among the most affordable opportunities (for the number of credits earned/duration of time abroad), as cost is close to in-state OSU tuition. A few of our key exchange partners include the University of Canterbury, New Zealand; Fachhochschule Salzburg, Austria; École Supérieure Du Bois, France; and the University of British Columbia, Canada.
Conferences and Research: CoF also provides funding support through the Dean's Fund for International Engagement to students who are selected to present at conferences, or who are conducting independent research.

Other program opportunities exist – talk to Kerry Menn about all of your options.

Program Durations

Short-term: Faculty-led programs make up the majority of short-term programs (typically 1-4 weeks). These programs may have a single location, or travel to different sites. These are offered during winter, spring and summer breaks.
Term programs: International internship opportunities within the College of Forestry span 1-3 terms in duration and usually align with the OSU quarter system calendar. Outside of the College of Forestry, some providers have programs that last a ten-week term, and are designed to align with OSU's academic calendar.
Semester programs: As many universities worldwide are on a semester system, the majority of exchange programs (and many study abroad programs) are linked to this model. For OSU students, this generally means that students studying abroad in the Fall are away for part of the summer and one term, and those abroad for the Spring are away during Winter and Spring terms from OSU.
Year-long programs: Most exchanges and study abroad programs are able to accommodate students for an entire academic year.

Program Providers

College of Forestry: The College offers a range of exchanges, faculty-led programs and internships specifically designed for Forestry students. These are by far the most popular, and usually the most affordable, of your international options.
Oregon State University: Exchanges and faculty-led programs are also developed on a university-wide basis and by other Colleges within the University.
IE$_3$ Global: IE$_3$ Global provides internship, research, exchange, and faculty-led programs to students throughout the Northwest and beyond.
Co-Sponsored Program Providers: Organizations (profit and non-profit) external to OSU that have been approved by OSU to offer study abroad programs to OSU students. Providers offer the full range of program experiences listed above, with the exception of exchanges. These include SIT, CIEE, API, Semester at Sea, and several others.

Forest Engineering and International Degree student Jessica Kessinger interned with Western Forest Products in British Columbia. "Living and working in Canada broadened my perspective of forestry and sense of being a global citizen. The independence required when living abroad pushed my comfort levels and tested me in ways I did not foresee. This internship...helped me better identify where I see myself as a professional."

Natural Resources student Sara Rose studied Forest Conservation and Biodiversity in Malaysian Borneo as part of a College of Forestry faculty-led program, staying on for an internship to utilize her conservation skills in a tropical setting.

Forest Management and Forest Engineering students Brad Pfeifer and Zach Leslie interned for 13 weeks in New Zealand with the *Scion Research Institute*. Zach Leslie then went on to continue his international work experience in Chile at the Universidad Austral de Chile and at a forestry company in Malaysia.

Study, Research, Intern Abroad with CoF

Gathering information - explore your options

Meet with CoF International Programs (CoF Intl) to learn basics about options, program selection/application as soon as possible!	Meet with academic adviser to establish academic goals for overseas experience and optimal time and duration of program.

Select program and term/semester

Meet with CoF Intl to discuss program details (fit with goals, application process, finances, etc.). Complete this step 6 months-1 year in advance of program.	If program has multiple course offerings (e.g., exchange), meet with academic adviser to select specific courses to be taken.

Apply to program

Complete application process via OSU GO portal. Most programs require transcripts, essays, and references. Many require interviews. Complete this step 3-6 months in advance of program.	Apply to both CoF sources and external funding sources for scholarships to support program. Keep an eye on deadlines, as they may be before program acceptance!

Student accepted into program

After OSU GO approval, complete secondary program application, if required (e.g. exchange). Confirm housing options and make travel arrangements the term before the program starts.	OSU GO sends program cost estimate to Financial Aid office, which determines aid amount for overseas study. Meet with Financial Aid office if necessary.

Pre-departure

Apply for visa (if required). Attend required orientations. Visit travel clinic, arrange for any needed medications/ vaccinations the term before the programs starts.	Confirm payment arrangements. Plan your financial arrangements for your time abroad. Get PIN from academic adviser. Register with CRN provided by OSU GO. Pack!

While abroad

Understand academic requirements. Exchanges: send course syllabi to CoF Intl for establishment of equivalencies, prior to articulation by the OSU Registrar.	Exchanges and Internships: Get PIN from academic adviser so you can register for each term you're away and for the term you return to OSU.

Upon return to OSU

Attend any returnee meetings, debrief, and encourage others to go! Give feedback to CoF Intl and academic advisers.	Exchanges: host university will send transcript to CoF Intl or OSU GO. Once course equivalencies are approved, they will report credits and grades to registrar.

Teaching & Research Forests

The College owns and manages land in several forests around the region. Most notable is the McDonald-Dunn Forest located five miles north of Corvallis. Over 11,000 acres of land in the McDonald-Dunn are dedicated to research, teaching, demonstration and education. Students will visit the forest for class activities, labs, and recreation opportunities.

There are many opportunities for students to be involved at the OSU research forests. Student workers/interns are routinely hired to help with management, and opportunities are posted in the Fernhopper. Students are encouraged to use the forest for class projects, and to contact any of the College Forest staff for support.

Opportunities frequently arise to volunteer with trail construction and maintenance, invasive species removal, and landscaping. Students can sign up for our e-mail list to get forest updates and volunteer opportunities.

cf.forestry.oregonstate.edu/

Contacts:
Vacant
Recreation and Engagement Program Manager
541-737-6702

Matt McPharlin
Recreation Field Coordinator
541-737-6730
matt.mcpharlin@oregonstate.edu

Forest Director, Steve Fitzgerald, takes a group of students on a forest tour

Computing Support

College of Forestry students have access to support through the Forestry Computing Helpdesk.
helpdesk.forestry.oregonstate.edu
209 Peavy Forest Science Center | 541-737-2152 | Monday - Friday, 8:00am - 6:00pm

Computer Lab Locations: Richardson 203 and Peavy 113, 215, 217

Remote Access to Software: https://apps.oregonstate.edu
Short list of software: ArcGIS, Mathematica, R, SAS, SPSS. While not all Forestry specific applications are available, it is an option when you are not in a lab. Additional information can be found at https://is.oregonstate.edu/service/citrix-apps

Computer Buying Guide:
If you are planning to upgrade or purchase new computer hardware such as laptops, software, or accessories, we encourage you to consult with the Forestry Computing Helpdesk. COF staff is willing to assist you with your purchase to ensure that you order the correct equipment that matches both our support requirements and your computing needs.

Recommended Desktop

Processor: Intel® Core™ i7 Quad Core 7770 (3.60GHz, 8M)
Memory: 16.0GB DDR4 Non-ECC SDRAM, 2400MHz, (4DIMM)
Keyboards: USB Keyboard, No Hot Keys
Video Card: 1 GB ATI or Nvidia, Dual Monitor DVI or DP
Boot Hard Drives: 240 GB SSD or larger
Floppy Drive: No Floppy Drive
Operating System(s): Genuine Windows® 10 Professional
Mouse: USB 2-Button Optical Mouse with Scroll
Integrated Network Adapter (NIC): Integrated Gigabit (10/100/1000)
Removable Media Storage Devices: 8X Slimline DVD+/-RW
Audio Solutions: Integrated AC97 Audio
Hardware Support Services: 3 Year Limited Warranty plus 3 Year NBD On-Site Service

Recommended Laptop

Processor: Intel® Core™ i5-8400H (2.5GHz, 8M cache)
Display: 14 inch Wide Screen (1366x768) LED Display
Video Card: 512MB NVIDIA NVS 3100M
Memory: 8.0GB, DDR4-2666 SDRAM, 2 DIMMS
Hard Drive: 240 GB SSD or larger
Operating System: Genuine Windows® 10 Professional
AC Adapter: 90W AC Adapter
Module Bay Devices: 8X DVD+/-RW
Wireless Networking Options: Wireless™ 802.11AC dual band Card
Batteries: 4Cell Primary Battery
Carrying Case: Large Nylon Carrying Case
Hardware Support Services: 3 Year Limited Warranty plus 3 Year NBD On-site Service and Accidental Damage Coverage

Degree Partnership Program

Through OSU's Degree Partnership Program (DPP), you can be jointly admitted and eligible to enroll concurrently at Oregon State University and any of our community college partners. Students complete a single admission application and must meet OSU's standard admission criteria. DPP students can stay at their community college for up to 10 terms before enrolling in OSU classes, but maintain their active student status at OSU.

Benefits of DPP:

- Concurrent enrollment at OSU and the community college
- Access to 100 and 200-level courses (online or on-campus) at OSU and the community college, providing scheduling flexibility and tuition cost savings.
- Work with your community college advisor and your OSU advisor at the same time
- One application and one application fee
- Financial aid counts enrollment at both institutions for the same term (for qualified students)
- Increased flexibility in scheduling with access to more classes through the community college, on site at OSU, and with online courses offered though the OSU Ecampus
- Access to libraries, computer labs, and other services on both campuses (subject to an additional fee)
- Eligibility to live in on-campus residences and participate in campus dining plan.
- Transcripts automatically sent from the partner college to OSU at the end of each term

Community College Partners

Blue Mountain Community College	Linn Benton Community College
Central Oregon Community College (OSU Cascades only)	Mt. Hood Community College
Chemeketa Community College	Oregon Coast Community College
Clackamas Community College	Portland Community College
Clatsop Community College	Rogue Community College
Columbia Gorge Community College	Southwestern Oregon Community College
Hawaii Community College (Big Island)	Tillamook Bay Community College
Kapi'olani Community College (Oahu)	Treasure Valley Community College
Klamath Community College	Umpqua Community College
Lane Community College	University of Hawaii, Maui College (Maui)

To apply for DPP:

Students who are already admitted to OSU fill out a short application to add DPP. Application instructions are available here: partnerships.oregonstate.edu/newly-admitted-current-students/application-instructions

More Information:

1-800-291-4192
oregonstate.edu/partnerships/

College of Forestry Policies

Professional Conduct in the College of Forestry

forestry.oregonstate.edu/studentservices/conduct

The College of Forestry is a community of faculty, staff, students, and stakeholders that stretches across all spectrums. Every member of the College community is responsible for conduct that creates, promotes, and maintains a learning and work environment that is open to and welcomes all persons. As a community, we embrace each member through the acknowledgement, honoring, and celebration of our commonalities and our differences.

The foundation for maintaining this environment requires that all persons must treat all others with dignity and respect at all times. The College fully supports the mission and goals of Oregon State University and affirms its support of the University policy against discrimination (eoa.oregonstate.edu/), as well as the University's policies on honesty, ethics, and substance abuse (available from the Office of the Dean of Student Life).

College of Forestry students are expected to conduct themselves in a manner that is honest, civil, courteous, and responsible in order to foster a learning environment and to practice behavior that is acceptable in the professional workplace.

Forestry students will use only authorized sources of information in completing their exams and assignments, will honestly report all sources (and references) for work submitted, and will not assist others in using unauthorized sources or in misrepresenting the sources they use. (Copying from others' exams, submitting dry-labbed data, and plagiarism are example violations.)
Forestry students will participate in classroom, lab, or field activities, and participate in groups with whomever they are assigned. Students and instructors will be respectful of the dignity and diversity of individuals, and strive to build constructive relationships with other students and instructors.
Students will avoid disruptive and discourteous behavior such as coming to class late, talking at inappropriate times, using cell phones, or monopolizing class time. Students and instructors will make safety a priority in class and field activities, and will always use/operate equipment (including vehicles and tools) in a safe and legal manner. During class activities*, students, faculty, and staff will completely abstain from the consumption of illegal drugs and alcohol, and be free from their influence. During other COF-sponsored activities**, students, faculty, and staff of legal drinking age will act responsibly and moderately when consuming alcohol.

Students are expected to adhere to the policies described in "Living Within the Acceptable Use Policy" regarding use of Forestry computing resources (helpdesk.forestry.oregonstate.edu/living-within-acceptable-use-policy?destination=node/2242).

Conduct Violations

Violations of acceptable conduct not only affect the persons directly involved, but the community as well. Our goal is to first address violations through education where effective. However, the College treats all violations as serious and will follow with disciplinary actions when necessary. All violations of the drug and alcohol rule must be reported and will be acted upon. The College adheres to University policies and procedures as established and administered by the OSU Office of the Dean of Student Life - Student Conduct and Community Standards (studentlife.oregonstate.edu/studentconduct).

Definitions

* A ***class activity*** is any scheduled activity associated with a course, including lectures, labs, and field trips. This includes overnight field trips, field school, Starker Lecture dinners, and applies to students, faculty, and staff. It does not include activities done independently by students, such as studying for classes, working on independent study classes, theses/dissertations, or internships.

** A ***COF-sponsored activity*** is any activity that is held on or off-campus that is funded or organized by the College of Forestry, or that is attended by COF faculty, students or staff using any COF funds.

The definition of ***student*** is any matriculated undergraduate or graduate student. The policy applies to all students taking COF classes or attending COF-sponsored events, whether they are Forestry students or not.

Differential Tuition

Differential tuition is a surcharge added to a student's base tuition. The COF experiences higher than normal costs of instruction for certain programs – well in excess of the funds we receive from the state to offer our programs. There are several reasons for this:

1) Labs often limit the size of certain courses
2) Most of our programs require specialty courses, often not taken by many students outside the COF or even outside a specific major
3) Some of our courses require specialized field equipment and/or transportation
4) Many of our classes require field trips ranging in length from several hours to several days.

The current COF differential tuition is an additional $10 per credit hour. It applies to all courses taken by students in programs assessed differential tuition, not just courses offered by COF. Differential tuition does not apply to Ecampus courses or our students on the Cascades or LaGrande campuses.

Degree Program	Tuition Rate Assessed
Forest/Civil Engineering	College of Engineering Differential Tuition
Forest Engineering	College of Forestry Differential Tuition
Forestry	College of Forestry Differential Tuition
Renewable Materials	OSU Corvallis Campus Tuition
Recreation Resource Management	OSU Corvallis Campus Tuition
Natural Resources (Corvallis students)	OSU Corvallis Campus Tuition
Natural Resources (Cascades students)	OSU Cascades Campus Tuition
Tourism, Recreation & Adventure Leadership	OSU Corvallis Campus Tuition
Tourism & Outdoor Leadership	OSU Cascades Campus Tuition

Billing & Payment

All billing for currently enrolled students is processed electronically through eBill. eBill statements are processed on the 5th of each month for students who have current activity resulting in an account balance or credit. Students are sent an email to their ONID email account when their statement is ready to view and can then view their eBill statement online at mybill.oregonstate.edu. Unpaid balances as of the 1st of the month following the eBill statement are considered past due, and will be assessed interest at the rate of 1% per month (12% APR). Students are financially responsible for all courses for which they register. Students are responsible for paying fees by the deadline even if they do not receive a bill.

If you carry a balance on your OSU student account you should note that the balance must be paid down to $2,200, and outstanding charges are from only the two most recent terms before you can register for the next term. In addition, if you owe money from a prior term you are unable to access a complete official transcript until all of your prior term balances are paid.

For full details on billing and payment visit:
fa.oregonstate.edu/business-affairs/studentbilling
oregonstate.edu/dept/fa/businessaffairs/studentfinance/faq_answers
fa.oregonstate.edu/business-affairs/student-debt-management

Academic Calendar & Deadlines

The Academic Calendar is maintained by the Office of the Registrar, and is available online: registrar.oregonstate.edu/osu-academic-calendar/

Spring 2020 Academic Calendar

Term Dates	Mar 30 - Jun 12
Classes Begin	Mar 30
Last Day To:	
Add a Course Online without Department Approval	Apr 5
Drop a Course (100% Tuition Refund)	Apr 5
Audit a Course	Apr 10
Add a Course Online with Department Approval	Apr 12
Withdraw from a Course (50% Tuition Refund)	Apr 19
Change the Grading Basis of a Course	May 15 by 5pm
Withdraw from a Course (No Refunds Available)	May 15
Withdraw from Term	Jun 5
Classes End	Jun 5
Finals Week	Jun 8 - Jun 12
Spring Term Ends	Jun 12
Grades Available Online	Jun 17

Terminology

Academic Warning or Academic Probation: Academic Warning (AW) and Academic Probation (AP) are part of the University's Academic Standing terminology. The full Academic Standing policy (Academic Regulation #22) can be found online: catalog.oregonstate.edu/regulations/ .

Oregon State University expects students to maintain satisfactory academic progress toward degree completion. At the conclusion of each term, grade-point averages are calculated and academic standings determined for students seeking a baccalaureate degree according to the criteria outlined below. Students whose standings evidence a lack of satisfactory progress will be warned of this condition and advised to seek help from their academic advisors.

1) **Academic Warning:** Students with a term GPA below 2.0 will be placed on Academic Warning.
2) **Academic Probation:** Students who have attempted[1] 24 or more credits at OSU and have an OSU cumulative GPA below 2.0 will be placed on Academic Probation. Students who attain a cumulative GPA of 2.0 or better are removed from Academic Probation.
3) **Academic Suspension:** Students who are on Academic Probation and have a subsequent term GPA below 2.0 will be placed on Academic Suspension. Academic Suspension is recorded on the student's academic record. Students who are academically suspended are denied all the privileges of the institution and of all organizations in any way connected to it, including any university-recognized living group.
4) **Reinstatement to the University:** Suspended students will be considered for reinstatement to the university after two years or completion of a minimum of 24 quarter credits of transferable college-level work at an accredited college or university, with a GPA of 2.5 or above.

[1] *An attempt comprises a final grade in a course where the grade is: A, A–, B+, B, B–, C+, C, C–, D+, D, D–, F, S, U, P, NP, I/Alternate Grade (where the Alternate Grade is one of these grades), W.*

Adding a Class: Students can add classes through MyOSU until the end of the first full week of classes. Adding a class in the second week of the term requires special permission from the instructor.

Canvas: Canvas is the learning management system used for all Oregon State University courses. You will access Canvas to get course information like the syllabus, readings, and assignments. You might also upload homework or take quizzes in Canvas. You can view your grade in Canvas as well.

Catalog: The catalog is the official record of information about the University, colleges and departments, degrees and programs, and policies. It is updated annually and accessible online: catalog.oregonstate.edu/. You will be required to fulfill the degree requirements in the catalog for the year in which you matriculate. Changes made to programs in subsequent catalogs should not affect your curriculum.

Class Standing: Students are classified as Freshman/First-Year, Sophomore, Junior, and Senior according to the number credit hours completed.

First-Year	**1-44 credits**
Sophomore	**45-89 credits**
Junior	**90-134 credits**
Senior	**135+ credits**

Your earned credits also have an impact on when you register: the more credits you have, the higher you are on the priority registration list each term.

Deficient in Foreign Language (DFL): If you were admitted to OSU without meeting the foreign language requirement from high school, you will see a foreign language requirement in MyDegrees. In order to fulfill the requirement and graduate from OSU, you will have to complete two terms of a foreign language with grades of C- or higher. admissions.oregonstate.edu/admission-requirements-0

Degree Partnership Program (DPP): DPP allows you to be a student at OSU and a participating community college simultaneously. Sometimes referred to as dual-enrollment. See page 74 for more information on DPP.

Differential Tuition: Differential tuition reflects a surcharge added to a student's base tuition. Programs that 1) need to offset higher than average costs of instruction, 2) need supplemental resources to enhance program quality, or 3) experience higher than normal program demand are permitted to adopt this fee. See page 77 for COF differential tuition rates.

Dropping a Class: Students are allowed to drop a class until the end of the first full week of the term, and perform the drop in MyOSU. Dropped courses will not appear on your transcript, and you will be refunded a pro-rated portion of the tuition for the course you dropped. Students cannot drop classes after the deadline, but do have the option to withdraw from the class.

Equipment Room: See "Instrument Room"

Fernhopper: Historically, Pacific Northwest loggers and foresters were known as Fernhoppers. The name has continued as a tradition at OSU and is given to all OSU College of Forestry graduates. It is also the name College of Forestry's weekly e-newsletter (p. 57).

FERPA: FERPA is the Family Educational Rights and Privacy Act of 1974. The legislation protects the privacy of your student records and regulates how that information is utilized. University employees are prohibited from sharing any information about you or your educational record with anyone but you. Should you wish to allow your parent/guardian/spouse to have access to your student record, you will have to complete a waiver of your FERPA rights. OSU's FERPA waiver can be accessed here: registrar.oregonstate.edu/sites/registrar.oregonstate.edu/files/forms/em-ferpa-release-form.pdf

Field School: Field School is an intensive two-week hands-on experience that prepares students in Forestry, Forest Engineering, and Forest/Civil Engineering for pro-school. It is required of all students entering the professional program, and takes place in the summer (two weeks prior to the start of fall term, junior year).

Holds: A hold might be placed on your account to block your ability to register or to request transcripts. Holds can be placed by a variety of offices and are usually imposed for failure to comply with a policy or procedure. You will be able to view your holds on your MyDegrees page, and must contact the office that placed the hold in order to have it removed.

Instrument Room: Located in 169 Oak Creek Building, the instrument room is where students check out equipment for field labs and classes. Equipment available for check-out includes hard hats, diameter tapes, compasses and clinometers. A full list of available equipment is posted in the instrument room. Also known as the "equipment room."

ONID: This is your OSU "Network ID." Your ONID account not only gets you a university e-mail account (which we *strongly encourage* you to use) and server space for a web page, but it also grants you access to tools like Canvas and MyOSU.

All official university email will be sent to your ONID account, and most university officials will only respond to messages sent from your ONID (rather than non-ONID email addresses). Examples of messages sent to your ONID include emails from your professors related to class requirements, your tuition bill, information from your academic advisor, campus emergency alerts, or messages from COF Student Resources & Engagement related to job opportunities, scholarships, and events. **Students are responsible for the information sent to their ONID accounts regardless of whether they choose to read the messages.**

Override: An override is a code entered into the registration system to allow you to sign up for a class for which you might otherwise be prevented. For example, if your transfer credit for MTH 111 isn't showing up online, you might get a prerequisite error when attempting to register for MTH 112. The Math Department could issue you an override and you would be able to register for MTH 112.

PIN: A six-digit personal identification number used to unlock the registration system and sign up for classes. College of Forestry students will receive a new PIN every term, and obtain the PIN by meeting with their Academic Advisor.

Phase I & Phase II Registration: Registration is organized into two phases. Phase I is your first opportunity to register for classes, and you are allowed to sign up for a maximum of 16 credits. Phase II follows Phase I, and is your opportunity to add additional credits or sign up for the waiting list for a course. There is a 24-hour period between the end of Phase I and the beginning of Phase II in which no registration (or schedule changes) can take place.

Pro-School: Forestry, Forest Engineering, and Forest/Civil Engineering majors have a pre/pro model. Students spend their first two years in the pre-forestry program, and then apply to move into the professional forestry program (or "pro-school") for their junior year. Admission to the professional program is based upon satisfactory completion of the pre-forestry curriculum (with grades of C or higher in all courses) and a minimum pre-forestry GPA of 2.25. Students in pre/pro majors are encouraged to work closely with their academic advisor to ensure timely progress in the curriculum.

Satisfactory/Unsatisfactory (S/U) Grading: The 'S' grade corresponds to a letter grade of 'A'

through 'C-'. The 'U' grade corresponds to a letter grade of 'D+' or lower. Students have until the end of the seventh week to change a class to S/U grading, and must obtain approval from their advisor. Up to 36 credit hours can be graded S/U, except those courses required, by department, for major and/or minor options. S/U grades do not apply to GPA calculations (Academic Regulation 18).

Schedule of Classes: The schedule of classes is an online listing of every course being offered in the coming year. The schedule includes the course meeting times, location, instructor, prerequisites, etc. You can access the schedule of classes online: catalog.oregonstate.edu/.

Waiting List: See oregonstate.edu/registrar/register
Online Registration tutorial: oregonstate.edu/registrar/node/93/#Registration Videos

Withdraw from a class: Students have the opportunity to withdraw from a course between the drop deadline and the end of the seventh full week of the term. *If you decide to withdraw from a class, you process the change the registration portion of your Online Services.* When you withdraw from a course you are no longer part of the class, and do not need to complete the rest of the assignments for the class. The course will still appear on your transcript, but a grade of W will be assigned, and you will not earn any credit for the course. A W grade is GPA neutral. When you withdraw from a course you will receive a pro-rated tuition refund. The University allows withdraw from a maximum of 12 individual courses.

Withdraw from the term: If you are enrolled in courses as of the first day of the term and elect to drop or withdraw from all of your courses for the term, you are withdrawing from the university for the term. The withdrawal is only effective for the term in which you drop or withdraw your courses. Your transcript will reflect your withdrawal from the university in the form of a comment that indicates that you withdrew for the term and the effective date of the withdrawal. All currently enrolled courses will be assigned a W grade indicating that you withdrew from the course. The W grade indicates the course was not completed, no credits were earned, and it is not used in the computation of the grade-point average. OSU allows students to withdraw from a maximum of four terms.

Scheduling Worksheet

Time	Monday	Tuesday	Wednesday	Thursday	Friday
8:00					
:30					
9:00					
:30					
10:00					
:30					
11:00					
:30					
12:00					
:30					
1:00					
:30					
2:00					
:30					
3:00					
:30					
4:00					
:30					
5:00					
:30					
6:00					
:30					
7:00					

Notes

Insert your 2019-2020 Advising Guide here

The Advising Guide for your major includes all of the course requirements to complete your degree. You should save it and refer to it when you have questions.